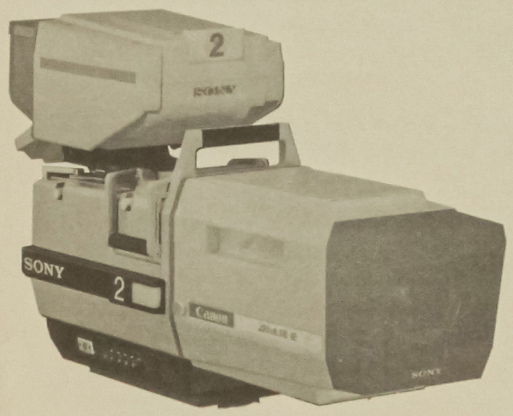
SONY

COLOR VIDEO CAMERA

BVP-360P



OPERATION AND MAINTENANCE MANUAL

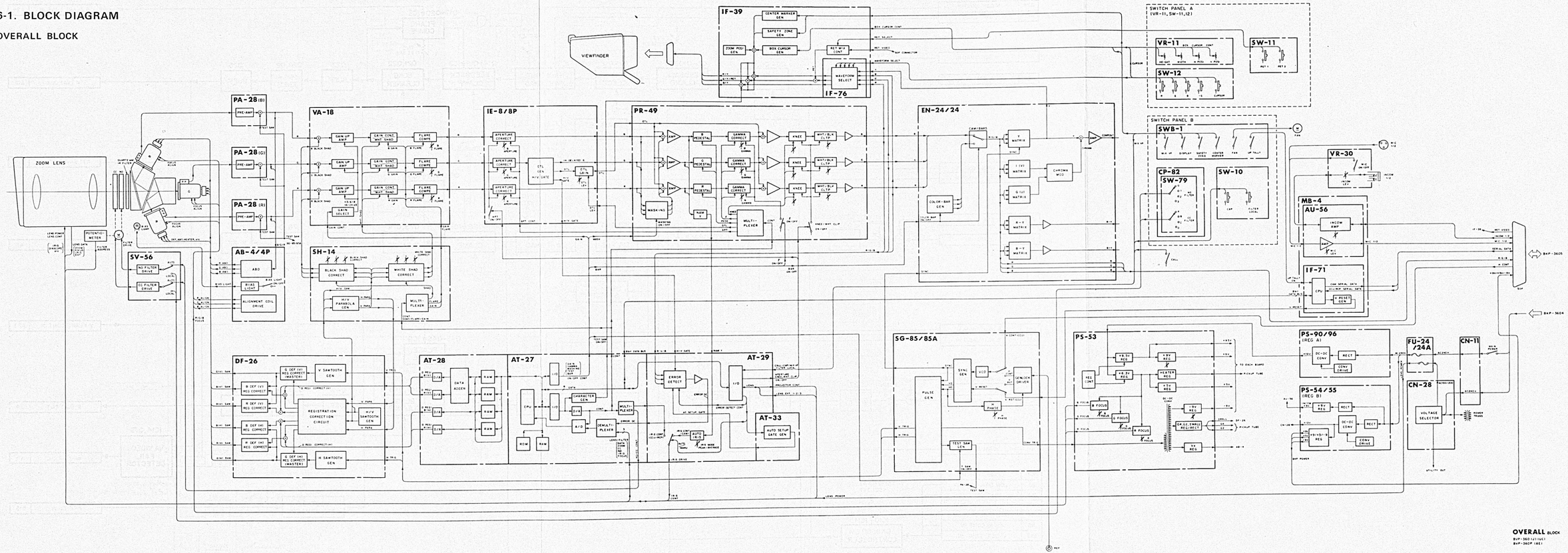
1st Edition

Serial No. 30001 to 30010

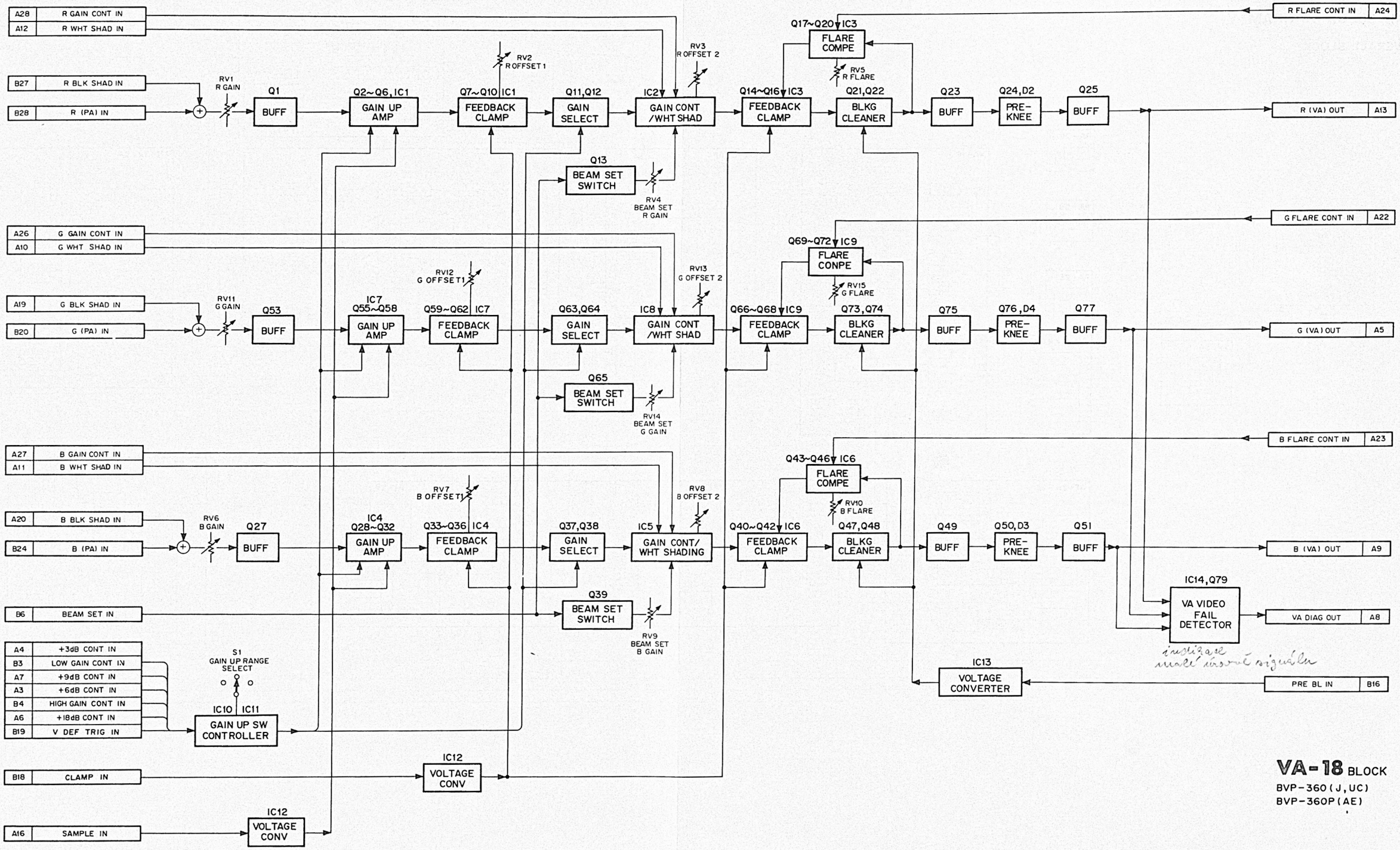
SECTION 6
DIAGRAM

6-1. BLOCK DIAGRAM

OVERALL BLOCK

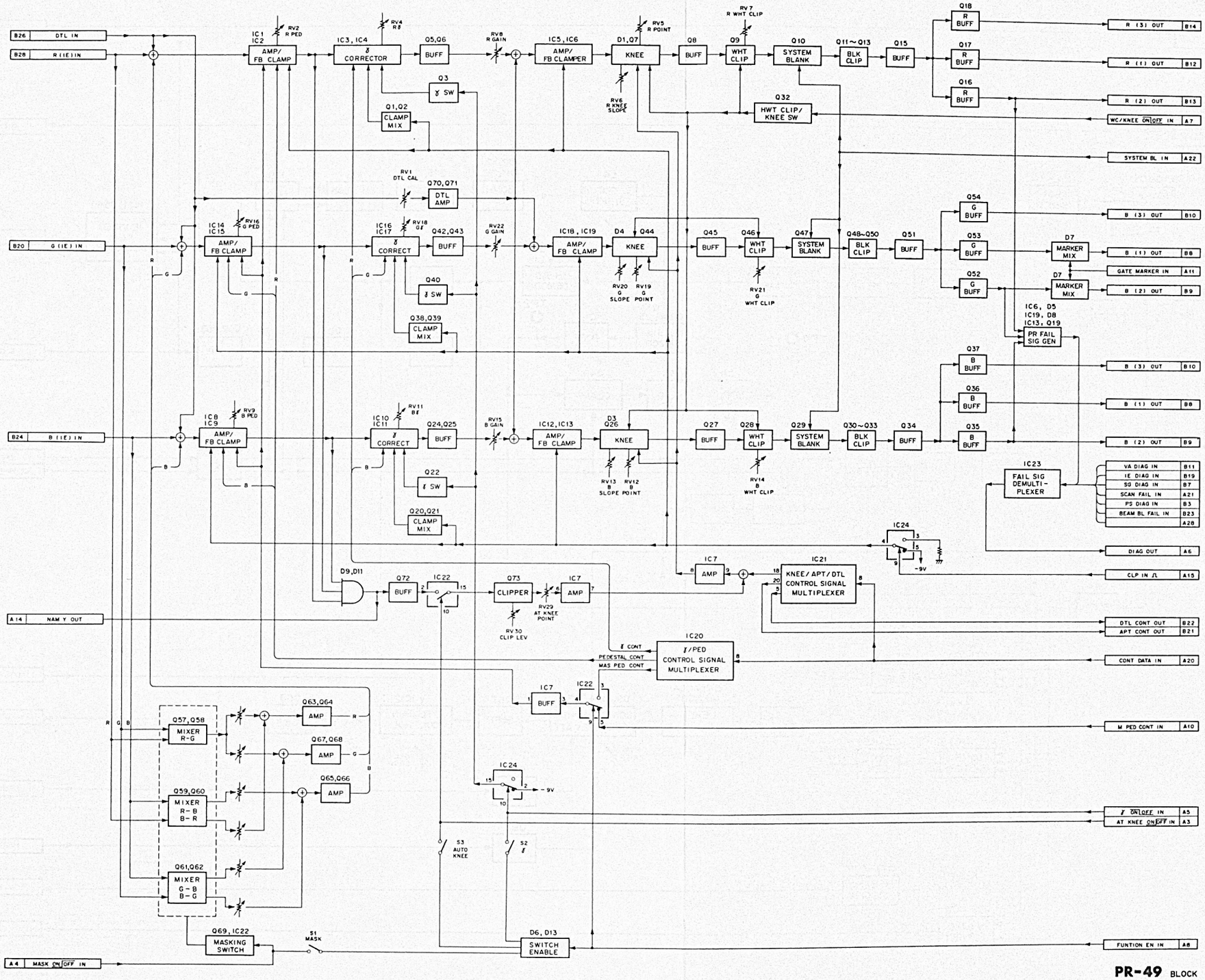


VA-18 BLOCK



VA-18 BLOCK
BVP-360 (J, UC)
BVP-360P (AE)

PR-49 BLOCK



PR-49 BLOCK
BVP-360(J,UC)
BVP-360P(AE)

IE-8/8P BLOCK

IE-8/8P BLOCK

B12 R (VA) IN
B21 APT CONT IN
APERTURE CORRECTOR
Q1~Q8 DL1, IC1
RV1 R APERTURE
R (IE) OUT A28

B8 B (VA) IN
APERTURE CORRECTOR
Q16~Q22 DL2, IC3
RV4 B APERTURE
B (IE) OUT A24

B4 G (VA) IN
APERTURE CORRECTOR
Q37~Q43 DL3, IC7
S1 APERTURE ON/OFF

X1, Q9, Q10 30MHz OSC
CV1 30MHz
L3 90° SHIFT
RV2 MOD QUAD
TP1
IC4 30MHz MOD
CV2 G FREQ RESP

Q23~Q27 DELAY LINE DRIVER
DL1 1H DELAY LINE
Q28~Q32 AGC AMP
TP4
IC8 AGC DET
AGC OFFSET
Q48
Q49 CLAMP
IC5 30MHz MOD
Q46, Q47 BUFF
IC9
REF
Q50 CLAMP
Q51 BUFF
IC10 BUFF
PRE BL
B16 PRE BL IN

L4 90° SHIFT
RV3 DETECT QUAD
D2, X2 Q11, Q12 30MHz VCO
Q45, IC8 PLL LOCK SPEED UP
IC8 2H LEAK DET
IC9 MPX
IC11, Q54 IE VIDEO FAIL DETECTOR
IE DIAG IN A19

IC6 Q33 L15 1H SIG DEMOD
IC2 Q13 L25 2H SIG DEMOD
Q14 BUFF
TP2
Q34 BUFF
TP3
1H DL
Q35 BUFF
DL7 DELAY
Q52, Q53 AMP
G (IE) OUT A20

IC10 INV
REF IN A14
CLAMP IN B15

1H DL

Q44 BUFF
OH
1H
2H

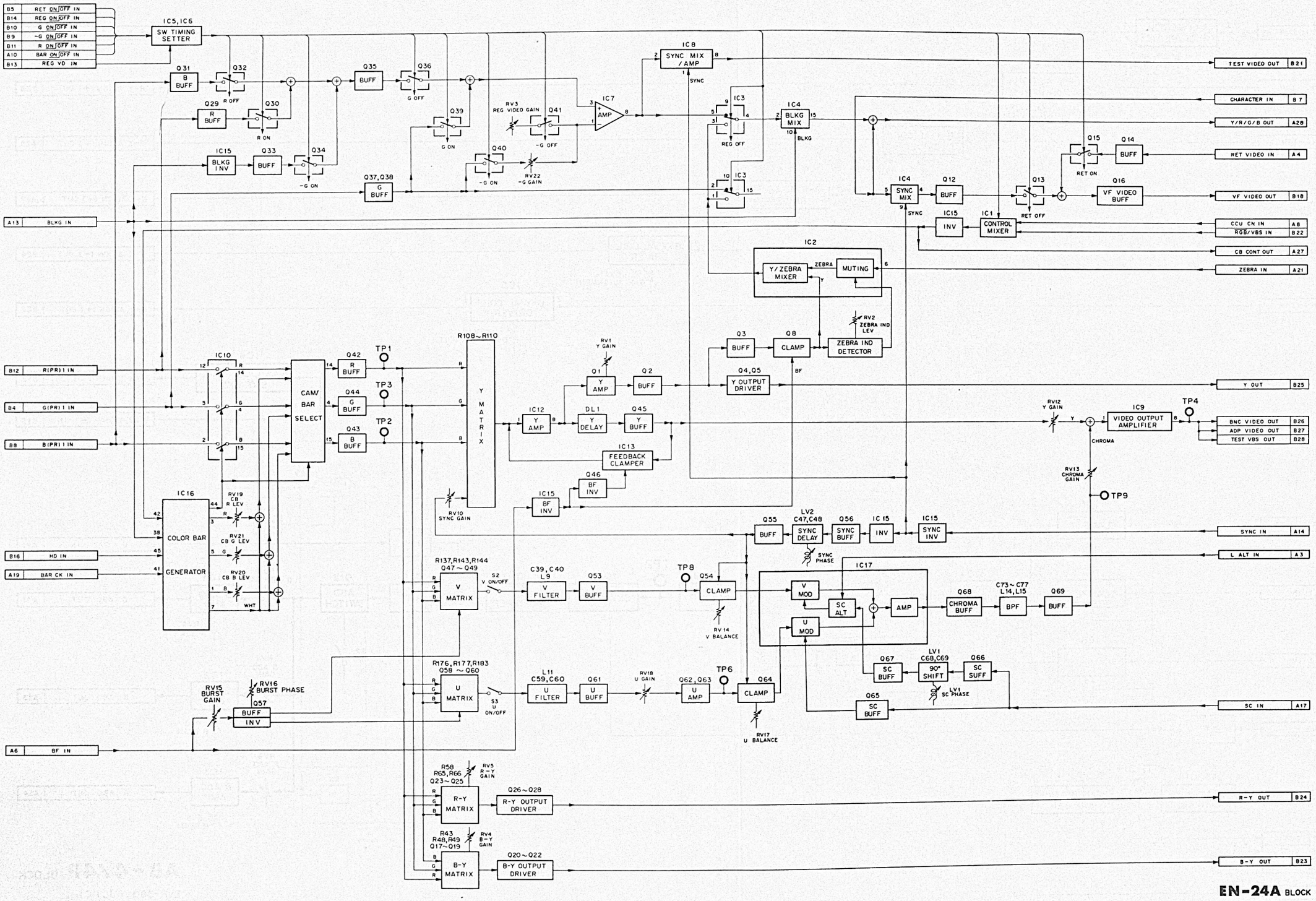
Q73, Q74 V DTL GEN
RV12 V DTL NULL
Q75 BUFF
R197~R199 COMB FILTER
DL5, DL6 Q55~Q59 H DTL GEN
RV9 H/V DTL RATIO
Q60 BUFF
Q61~Q64 Q80, Q81 LEVEL DEPENDENT
RV13 LEVEL DEPEND
D9, D10 Q65, Q66 CRISPENING/ CRISP LEV ATT
RV14 CRISP
Q67 BUFF
IC12 DTL GAIN CONTROL
RV11 DTL GAIN
S2 DTL ON/OFF
Q68 BUFF
Q83 INV
Q82 INV
Q76~Q79 H GATE SIG GEN
Q69~Q72 V GATE SIG GEN

DTL CONT IN A22
DTL OUT A26
+9dB CONT IN B7
+18dB CONT IN B6
H GATE OUT A10
V GATE OUT A6

(H+V)
DTL
APERTURE (H)
5
10 MHz

IE-8/8P BLOCK
BVP-360(J, UC)
BVP-360P(AE)

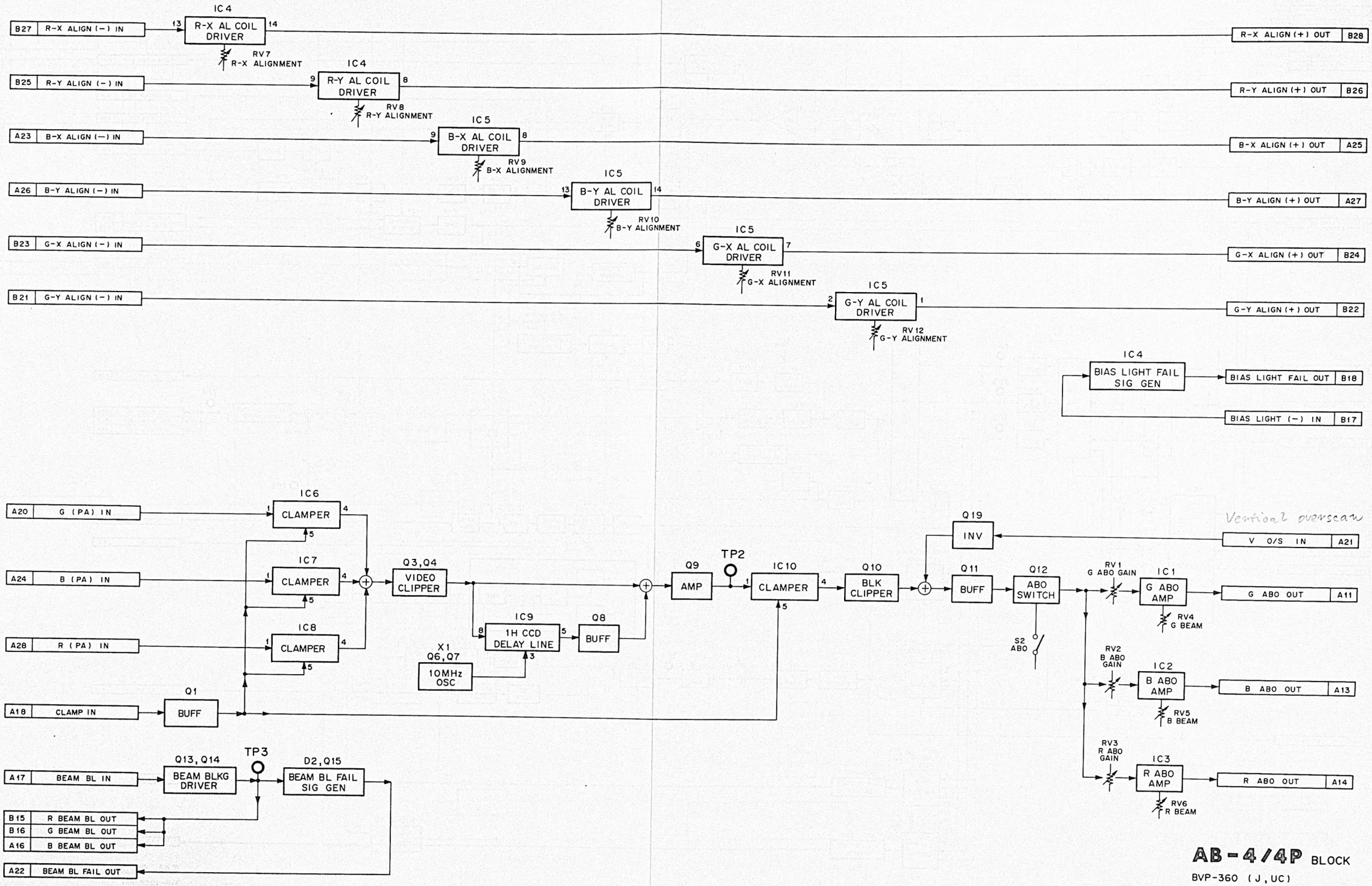
EN-24/24A BLOCK



EN-24A BLOCK
BVP-360P (AE)

AB-4/4P BLOCK

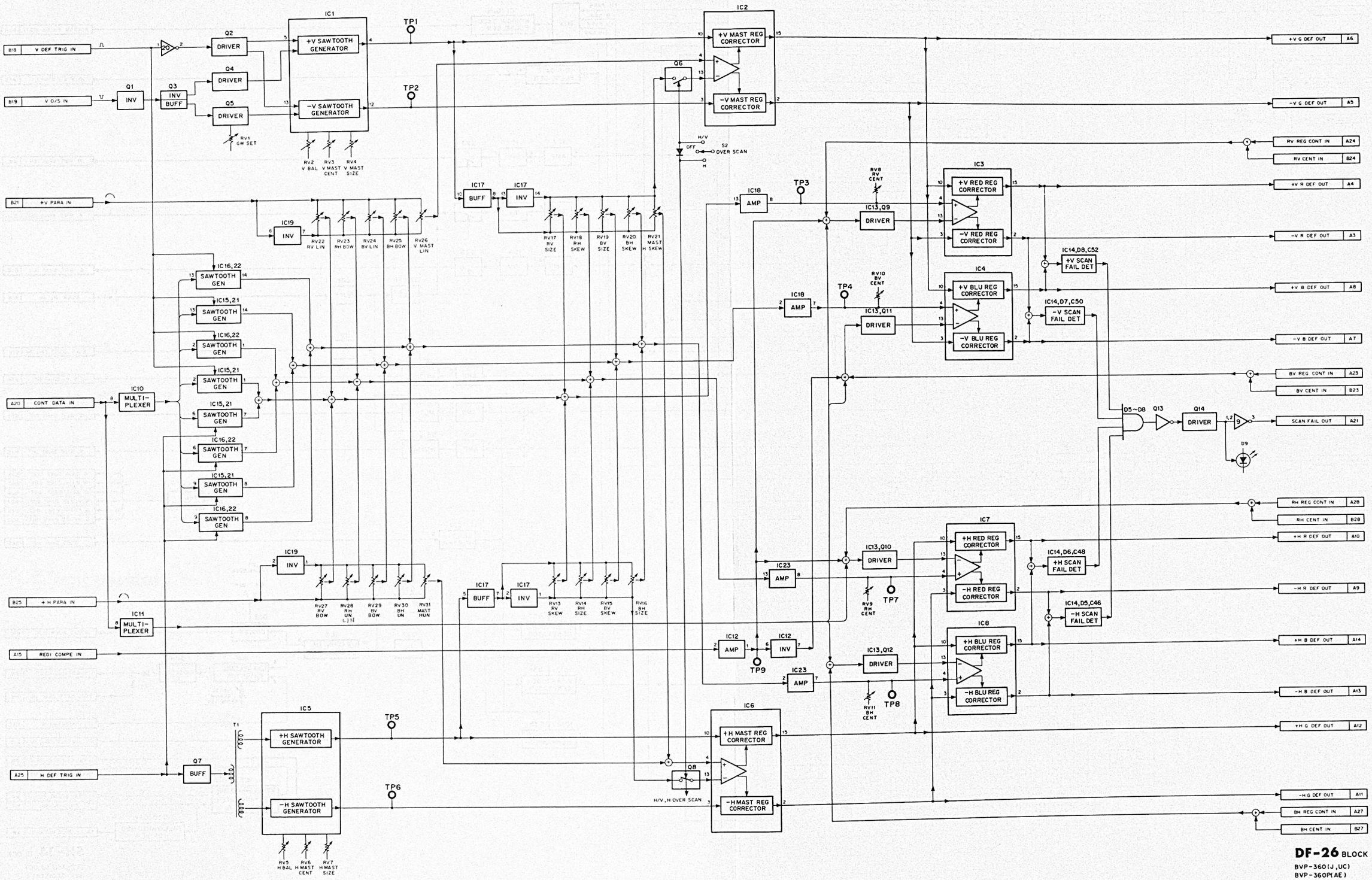
AB-4/4P BLOCK



AB-4/4P BLOCK

BVP-360 (J, UC)
BVP-360P (AE)

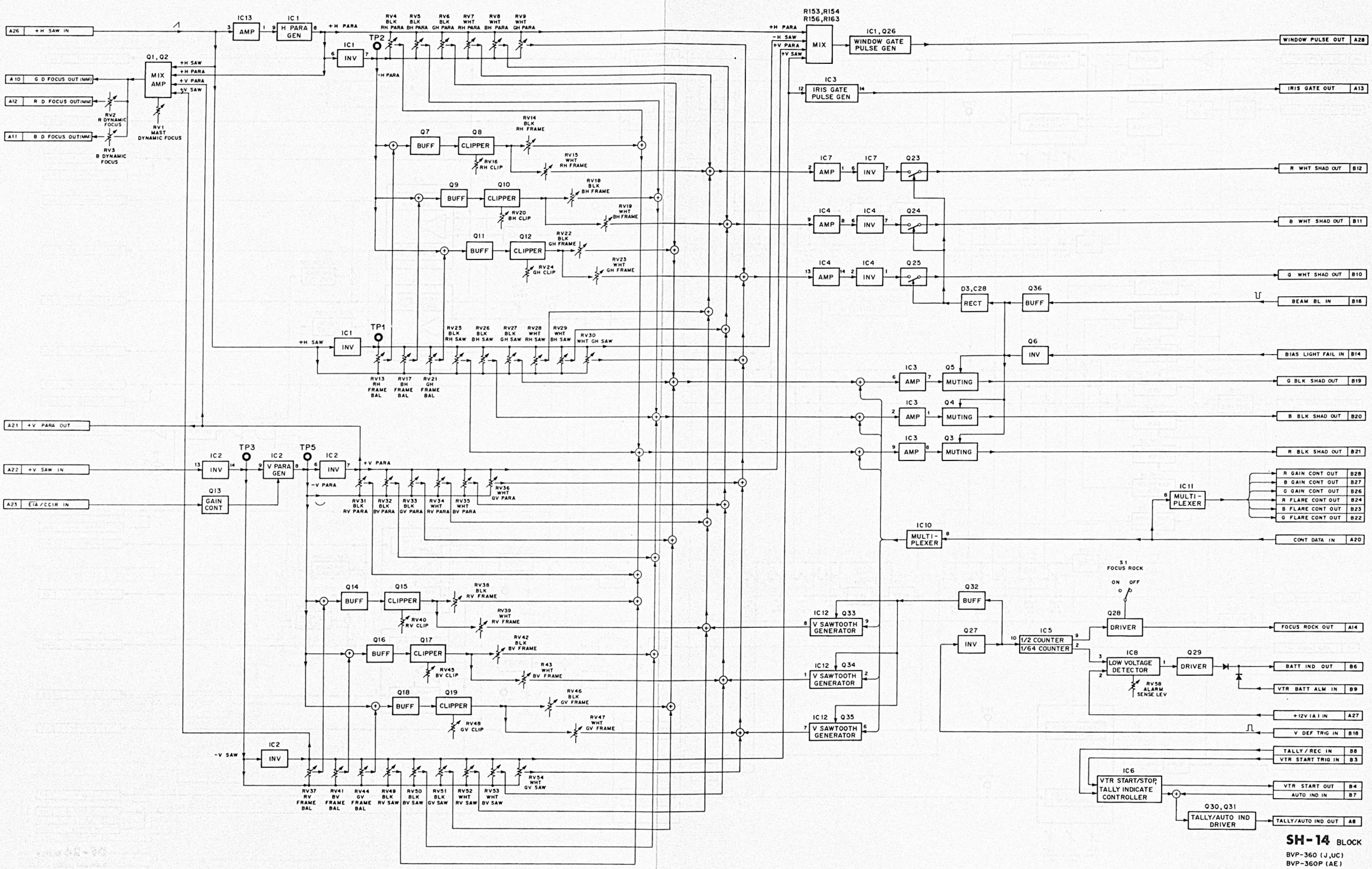
DF-26 BLOCK



DF-26 BLOCK
BVP-360(J,UC)
BVP-360P(AE)

SH-14 BLOCK

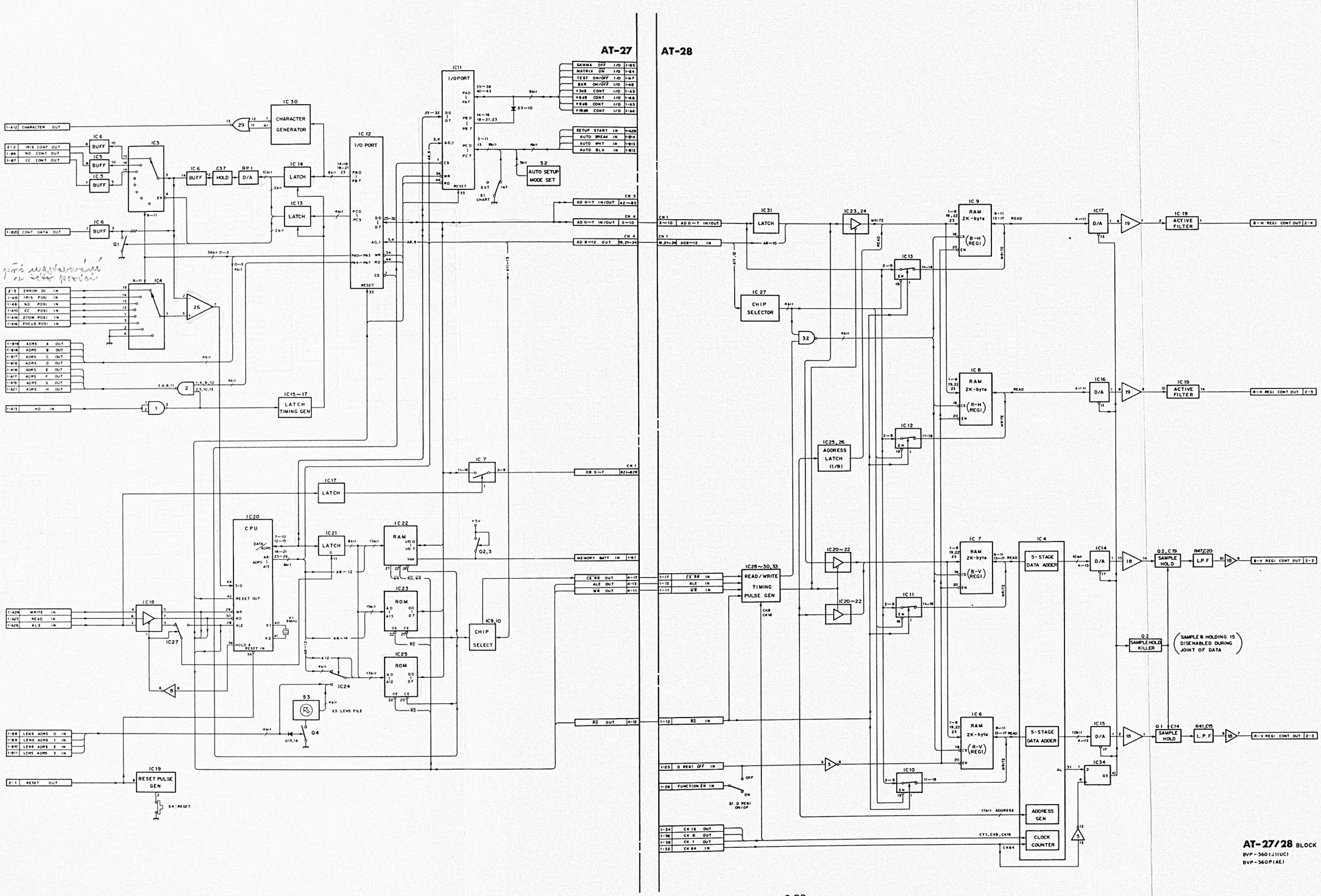
SH-14 BLOCK



SH-14 BLOCK

BVP-360 (J,UC)
BVP-360P (AE)

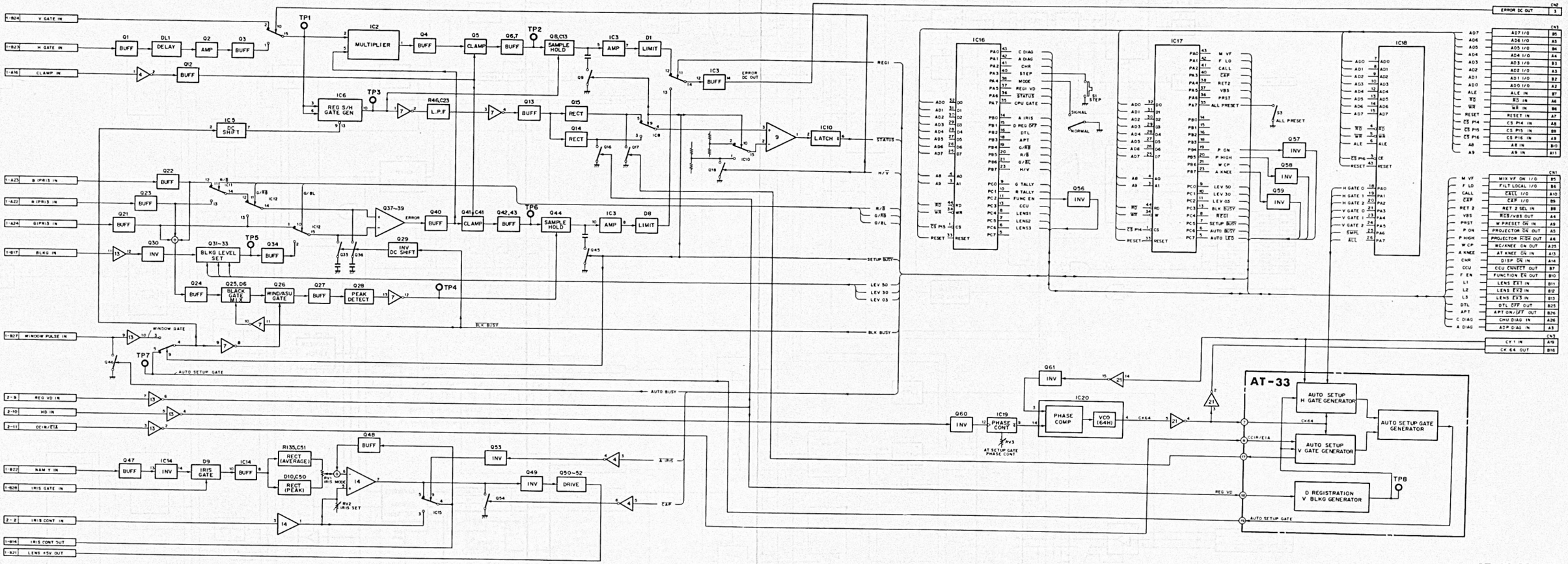
28 BLOCK



360/P

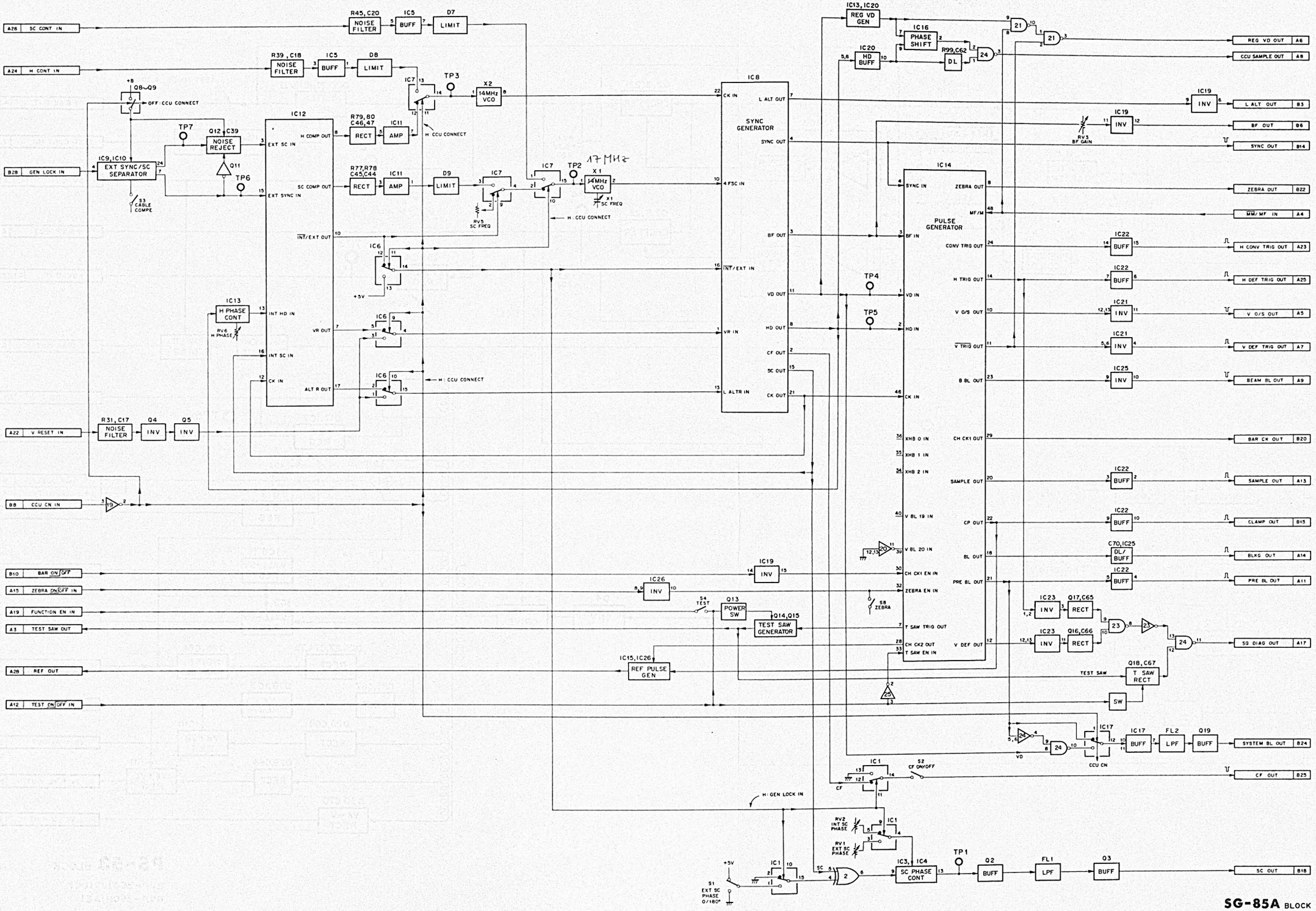
AT-29, 33 BLOCK

AT-29, 33 BLOCK



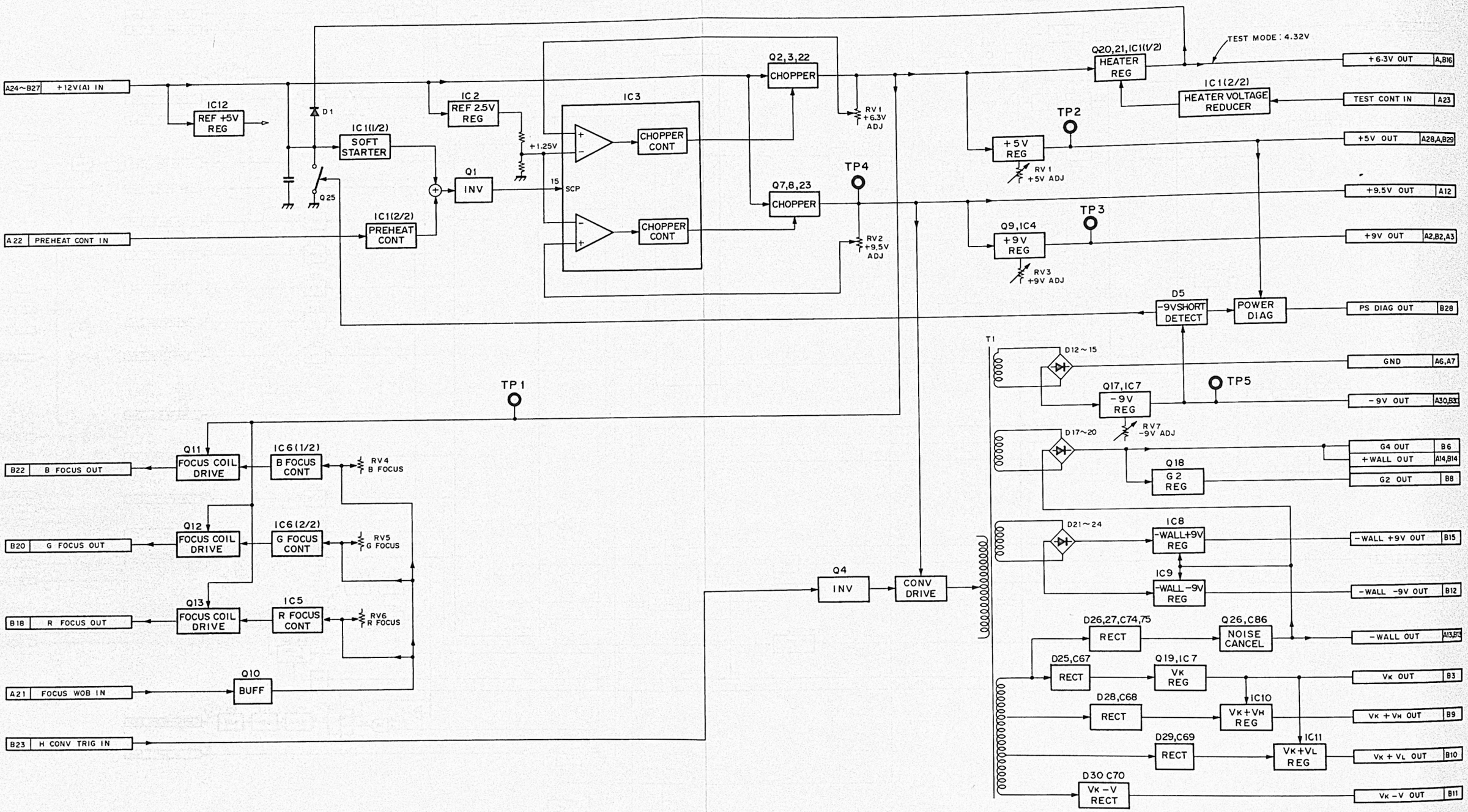
AT-29,33 BLOCK
BVP-360(J),(UC)
BVP-360P(AE)

SG-85/85A BLOCK



SG-85A BLOCK
BVP-360P(AE)

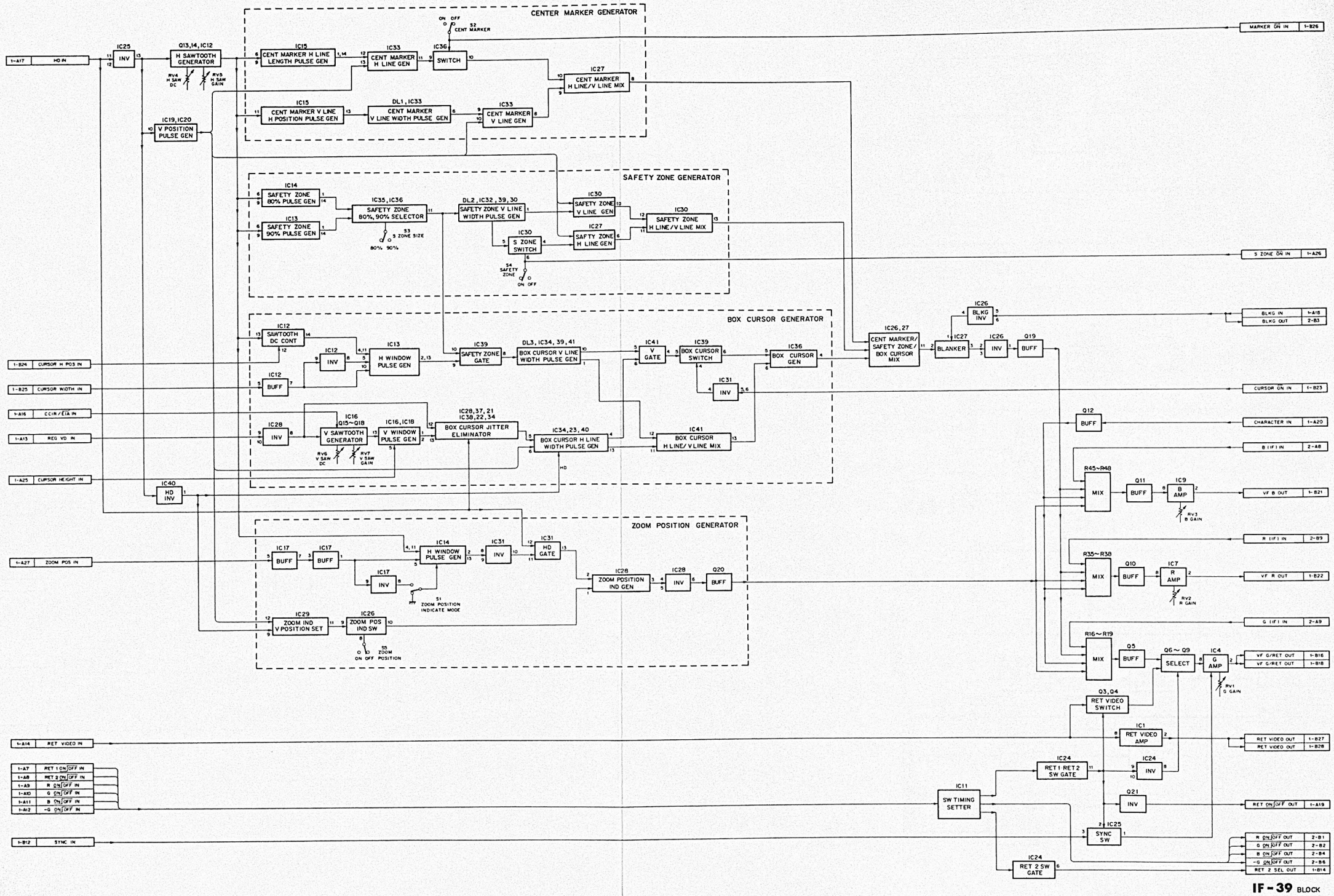
PS-53 BLOCK



PS-53 BLOCK

BVP-360(J)(UC)
BVP-360P(AE)

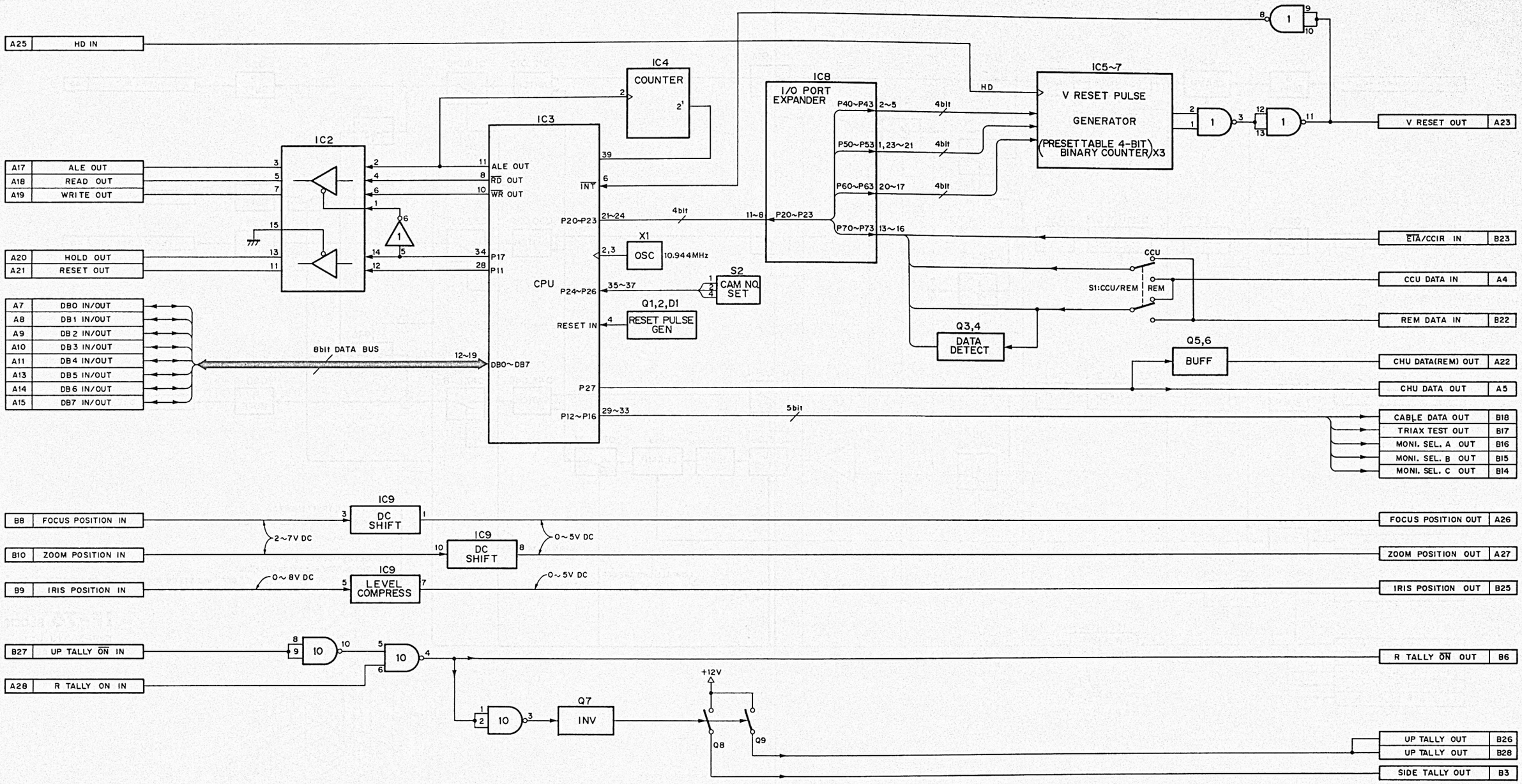
IF-39 BLOCK



IF-39 BLOCK

BVP-360(J,UC)
BVP-360(AE)

IF-71 BLOCK

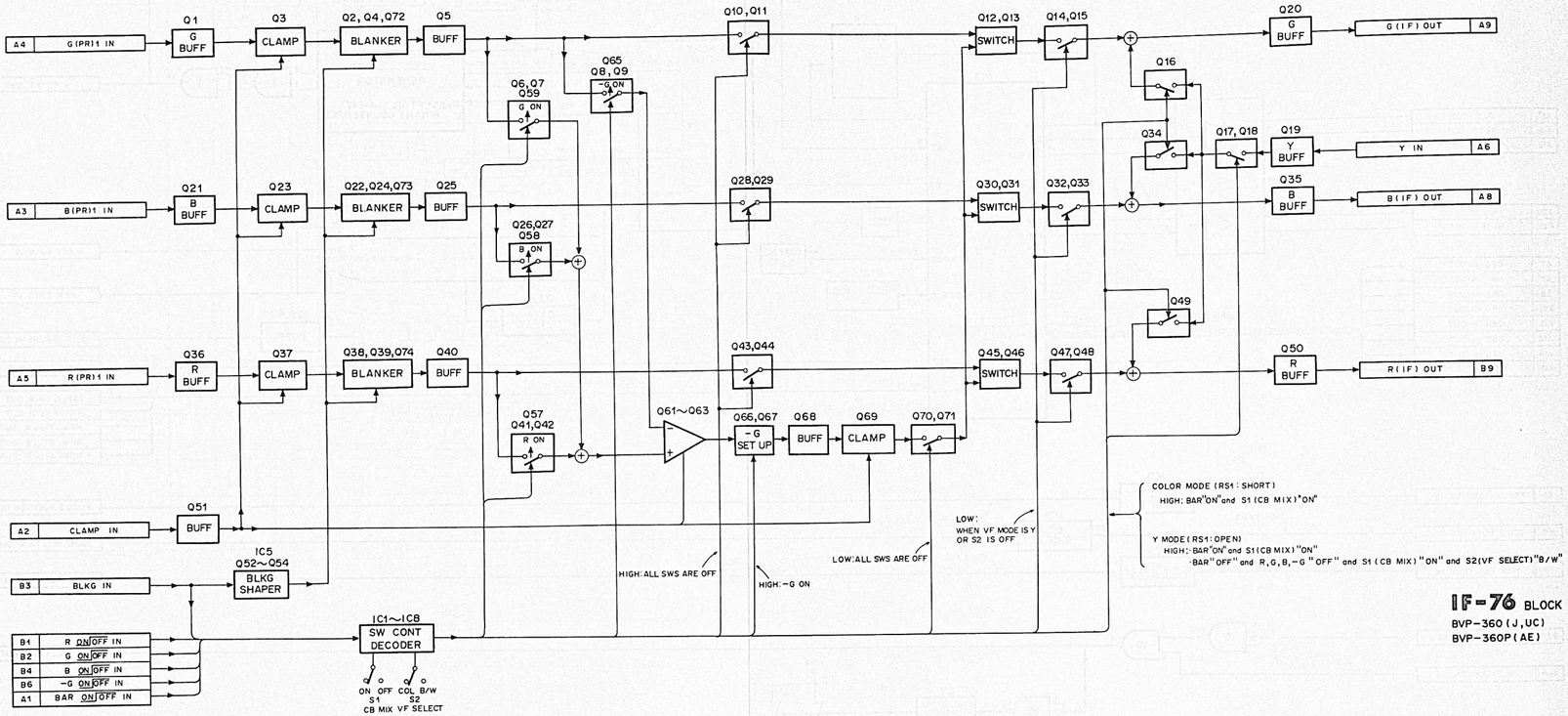


IF-71 BLOCK

BVP-360(J)(UC)
BVP-360P(AE)

IF-76 BLOCK

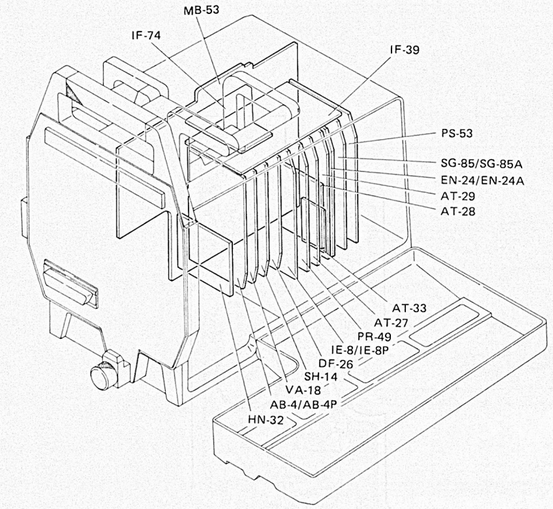
IF-76 BLOCK

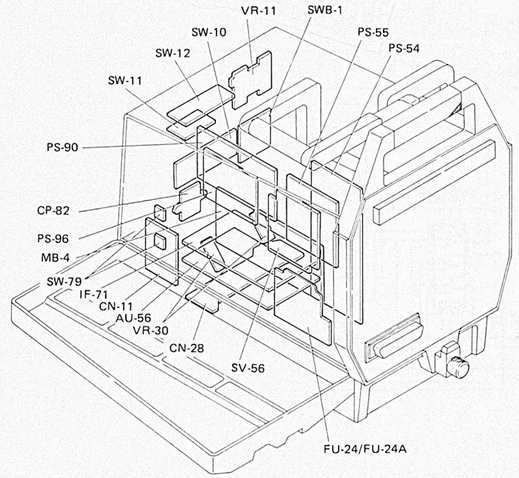


IF-76 BLOCK
BVP-360 (J,UC)
BVP-360P (AE)

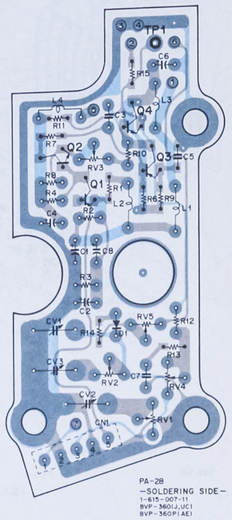
6-2. MOUNTING AND SCHEMATIC DIAGRAMS

LOCATION OF MOUNTED CIRCUIT BOARD





PA-28 BOARD
– SOLDERING SIDE –



PA-28 BOARD

PA-28 BOARD

Q1 2SA1226 **Q2** 2SC1009A **Q3** 2SA1226 **Q4** 2SC1009A
PRE AMPLIFIER

TUBE ASSY

PP-23

TUBE

TARGET

G4

S

PP HARNESS

1-2	1-5	PP VIDEO IN	
1-1	1-4	GND	
1-3	1-2	GND	
1-4	1-3	NFB OUT	
1-5	1-1	G4 OUT	

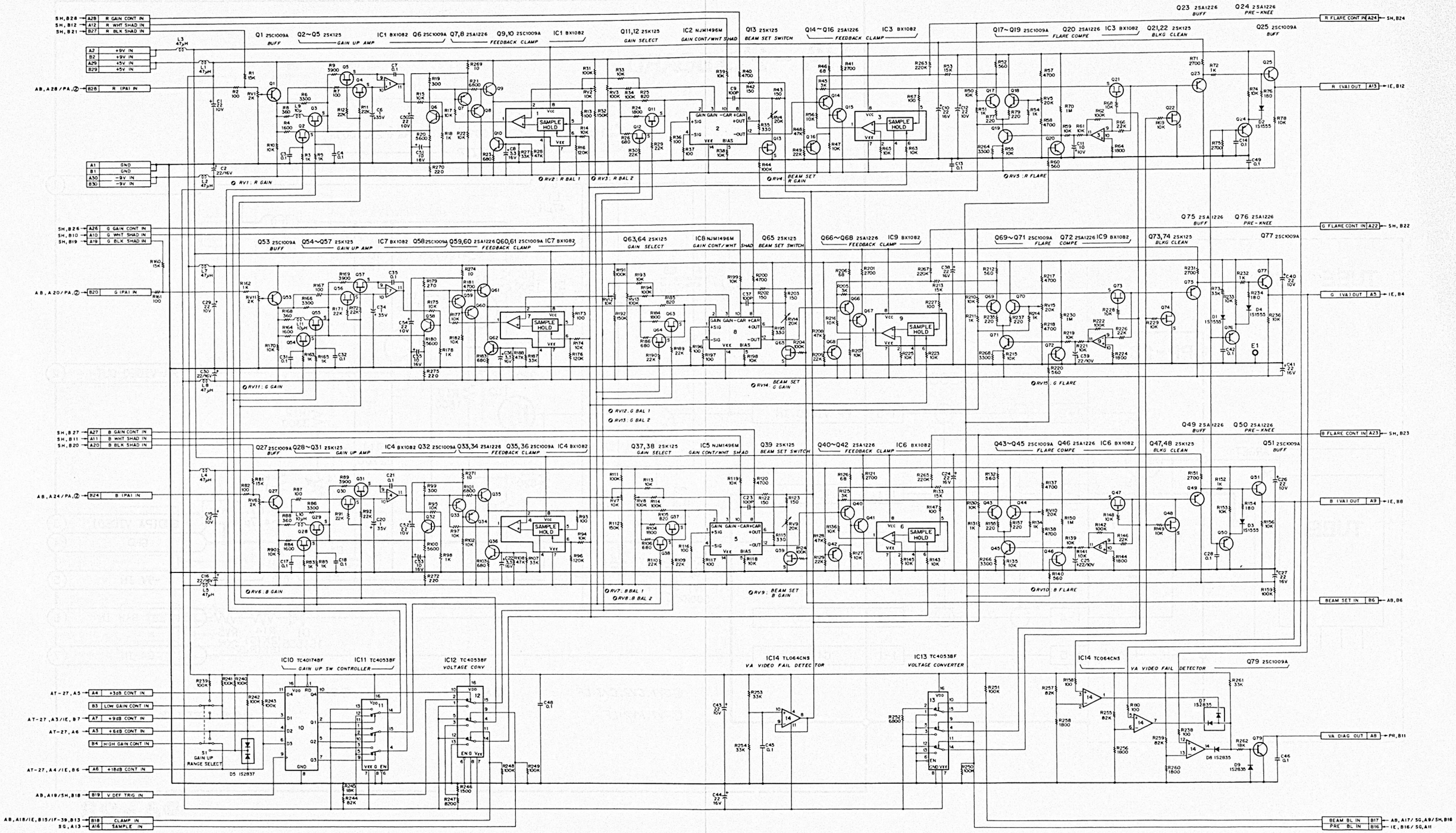
L1 47µH
L2 470µH
L3 47µH
L4 47µH
R1 470
R2 30K
R3 13K
R4 820
R6 1500
R7 220
R8 82
R9 100
R10 1800
R11 2700
R12 3300
R13 15K
R14 12K(G) 18K(R,B)
R15 22
RV3 2K
RV4 2K
RV5 20K
C1 10 16V
C2 0.1 35V
C3 2.7p
C4 10 16V
C5 470p
C6 10 16V
C7 4.7p
C8 3.3 16V
CV1 35p
CV2 6p
CV3 20p
RV1 500K
RV2 1M
D1 1S1555
TP1

+9V IN	1	
PA VIDEO OUT	2	
GND(PA VIDEO)	3	
GND	4	
-9V IN	5	
TEST SAW IN	6	
G4 IN	7	

⊘CV1, CV2, CV3: LF
⊘RV1, RV2: LF
⊘RV3: HF
⊘RV4: MF
⊘RV5: TEST LEV

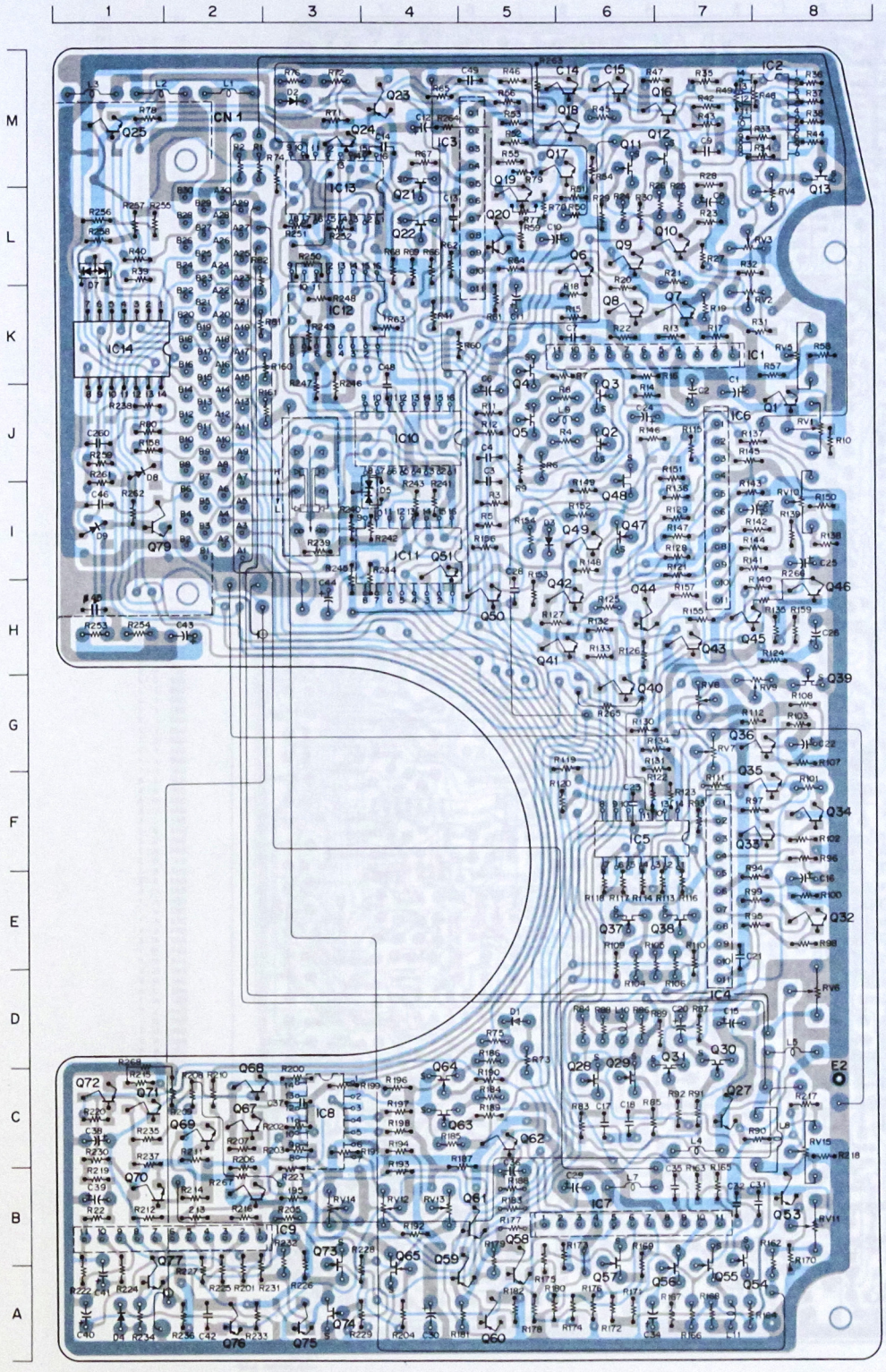
PA-28
BVP-360(J,UC)
BVP-360P(AE)

VA-18 BOARD



VA-18
BVP-360(J,UC)
BVP-360P(AE)

VA-18 BOARD
– SOLDERING SIDE –

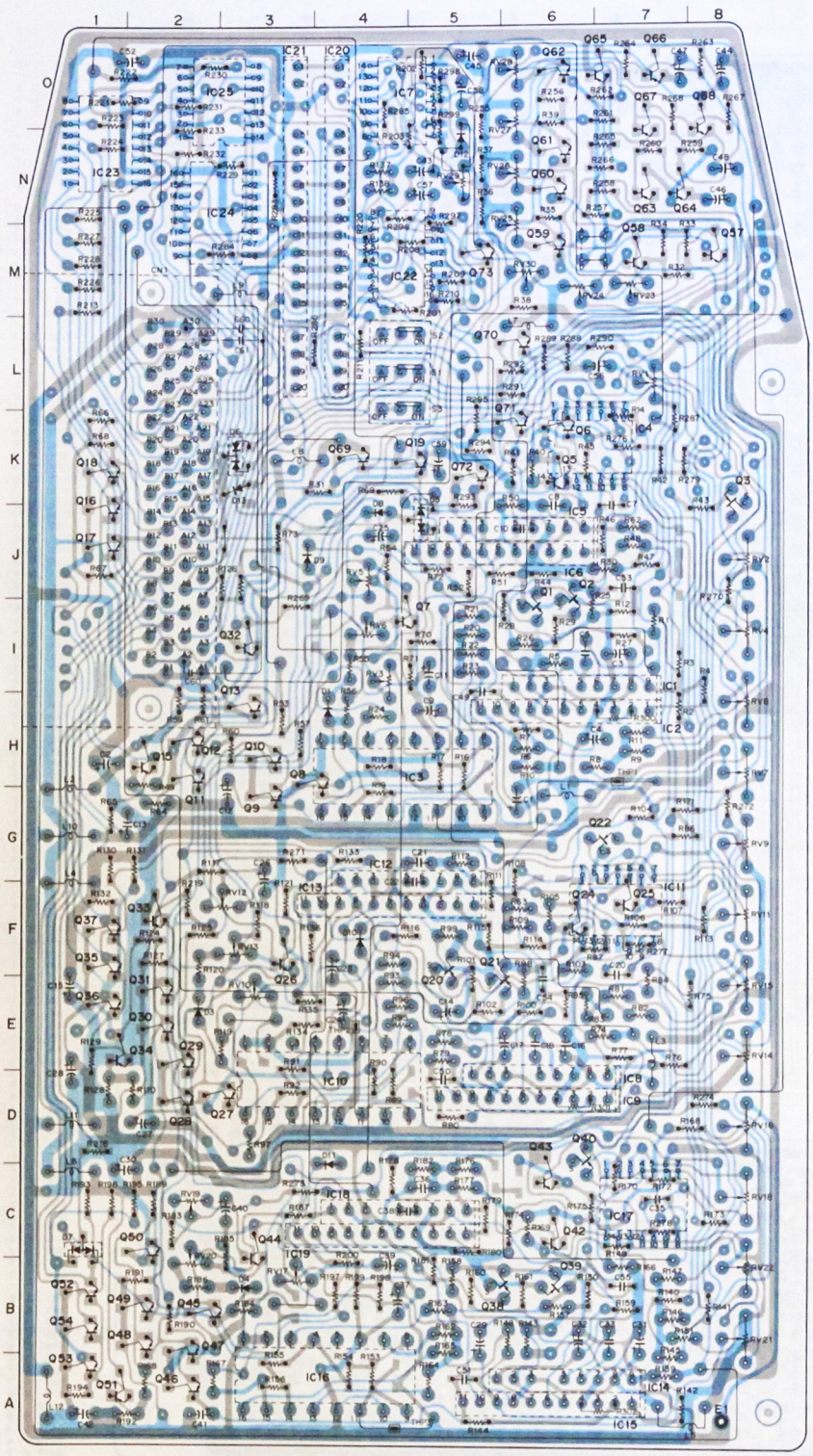


CN1	L - 2
D1	D - 5
D2	M - 3
D3	I - 5
D4	A - 1
D5	I - 4
D7	L - 1
D8	J - 1
D9	I - 1
E2	C - 8
IC1	K - 6
IC2	M - 8
IC3	L - 5
IC4	E - 7
IC5	F - 6
IC6	I - 7
IC7	B - 6
IC8	C - 3
IC9	B - 2
IC10	J - 4
IC11	I - 4
IC12	K - 3
IC13	L - 3
IC14	K - 1
Q1	J - 8
Q2	J - 6
Q3	J - 6
Q4	K - 5
Q5	J - 5
Q6	L - 6
Q7	K - 7
Q8	K - 6
Q9	L - 6
Q10	L - 7
Q11	M - 6
Q12	M - 7
Q13	M - 8
Q14	M - 6
Q15	M - 6
Q16	M - 7
Q17	M - 6
Q18	M - 6
Q19	L - 5
Q20	L - 5
Q21	M - 4
Q22	L - 4
Q23	M - 4
Q24	M - 3
Q25	M - 1
Q27	C - 7
Q28	C - 6
Q29	C - 6
Q30	D - 7
Q31	C - 7
Q32	E - 8
Q33	F - 8
Q34	F - 8
Q35	F - 8
Q36	G - 8
Q37	E - 6
Q38	E - 7
Q39	G - 8
Q40	G - 6
Q41	H - 6
Q42	H - 6
Q43	H - 7
Q44	H - 6
Q45	H - 7
Q46	H - 8
Q47	I - 6
Q48	I - 6
Q49	I - 6
Q50	H - 5
Q51	I - 4
Q53	B - 8
Q54	A - 7
Q55	A - 7
Q56	A - 7
Q57	A - 6
Q58	A - 5
Q59	A - 5
Q60	A - 5
Q61	B - 5
Q62	C - 5
Q63	C - 4
Q64	C - 4
Q65	A - 4
Q66	B - 2
Q67	C - 2
Q68	C - 2
Q69	C - 2
Q70	B - 1
Q71	C - 1
Q72	C - 1
Q73	A - 3
Q74	A - 3
Q75	A - 3
Q76	A - 2
Q77	A - 1
Q79	I - 1
RV1	J - 8
RV2	K - 7
RV3	L - 7
RV4	L - 8
RV5	K - 8
RV6	D - 8
RV7	G - 7
RV8	G - 7
RV9	G - 8
RV10	I - 8
RV11	B - 8
RV12	B - 4
RV13	B - 4
RV14	B - 3
RV15	C - 8

VA-18 BOARD
– SODERING SIDE –
1-615-010-11
BVP-360(J, UC)
BVP-360PIAE)

PR-49 BOARD

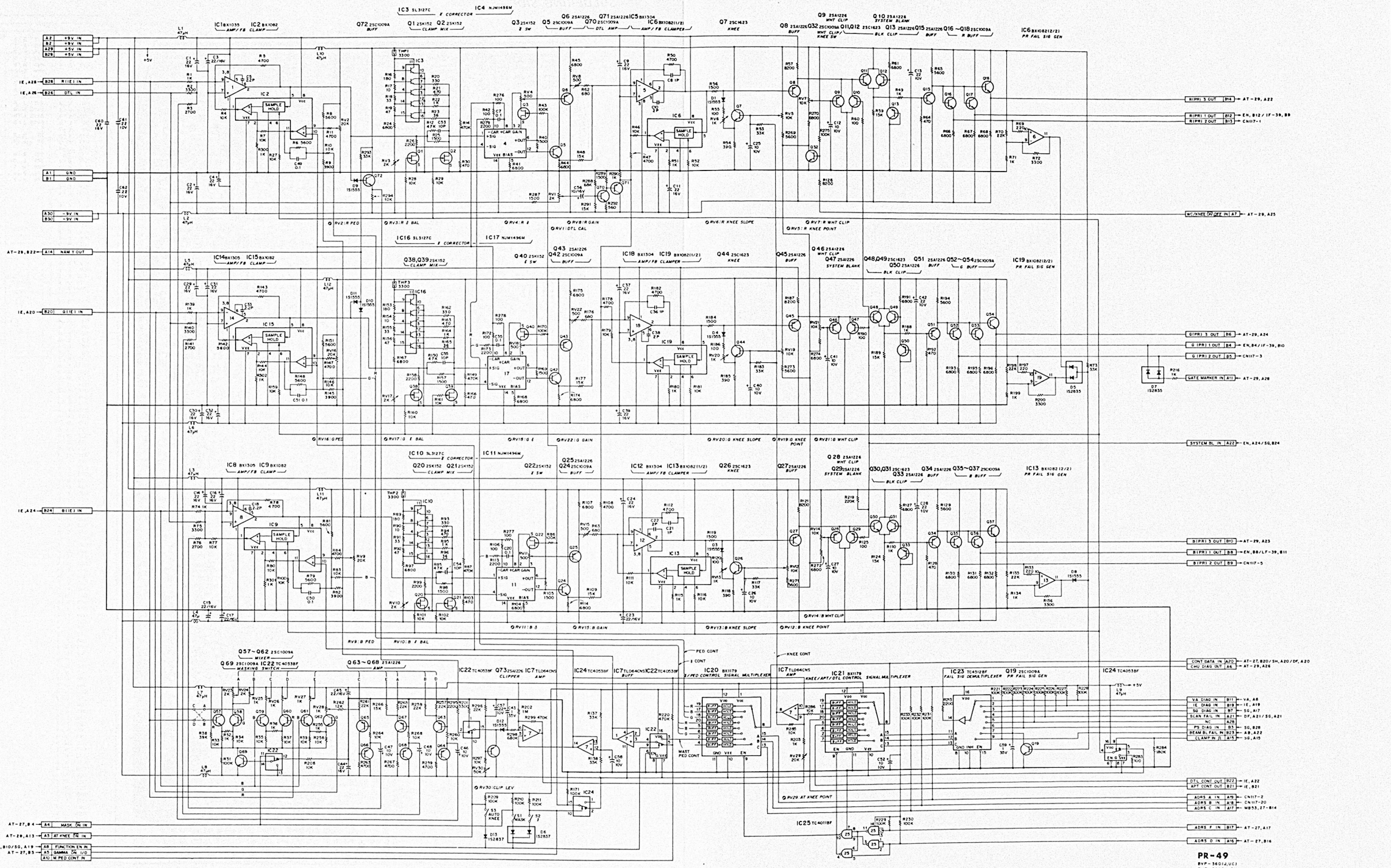
– SOLDERING SIDE –



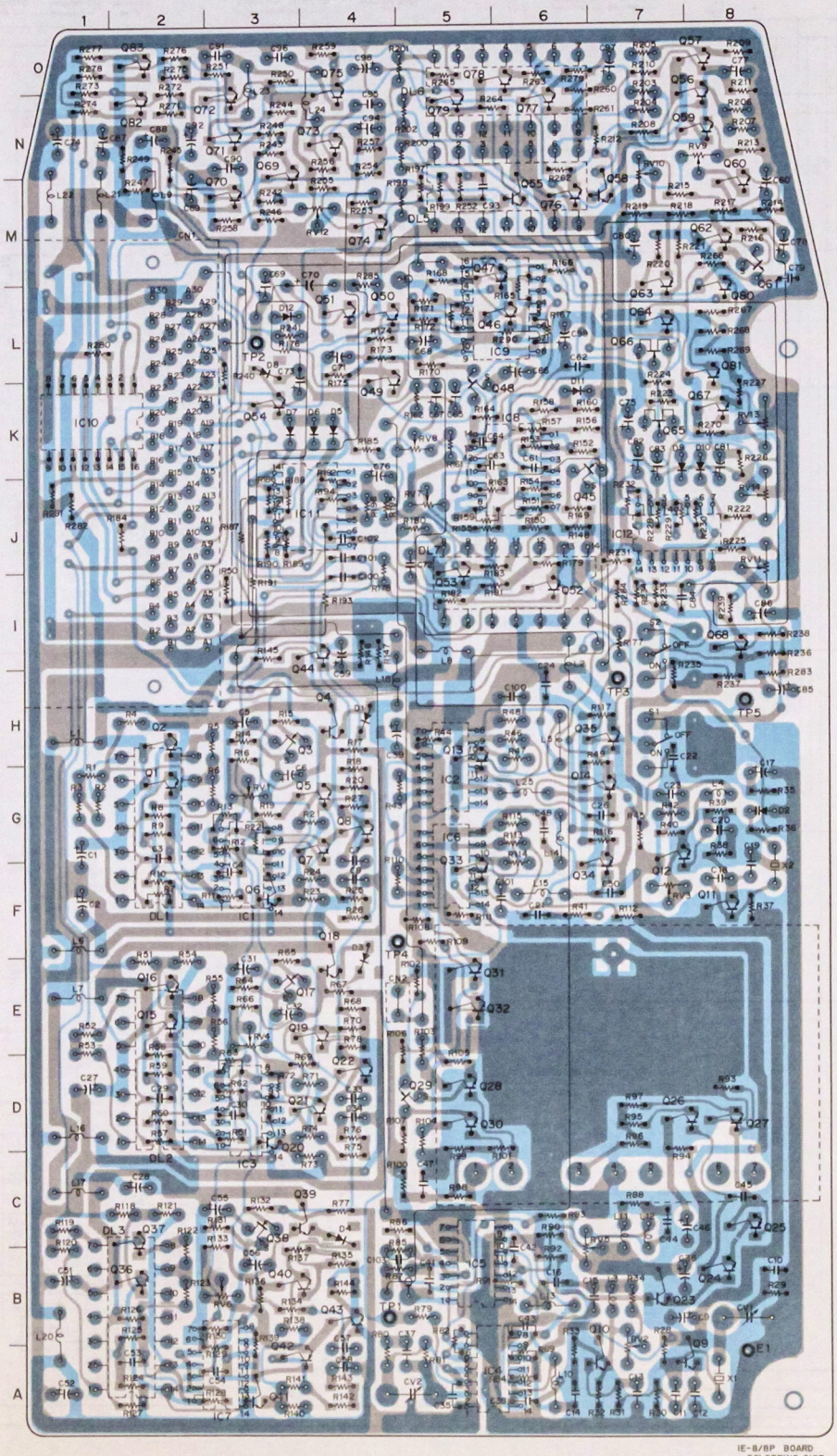
PR-49
– SOLDERING SIDE –
1-615-014-11
BVP-360(J,UC)
BVP-360P(AE)

CN1	L - 2			RV1	L - 7		
				RV2	J - 8		
D1	H - 4			RV3	I - 4		
D3	E - 2			RV4	I - 8		
D4	B - 3			RV5	J - 4		
D5	J - 5			RV6	I - 4		
D6	K - 3			RV7	H - 8		
D7	C - 1			RV8	H - 8		
D8	J - 4			RV9	G - 8		
D9	J - 3			RV10	E - 3		
D10	F - 4			RV11	F - 8		
D11	C - 4			RV12	F - 3		
D12	N - 5			RV13	F - 3		
D13	K - 3			RV14	E - 8		
E1	A - 8			RV15	E - 8		
				RV16	D - 8		
IC1	I - 6			RV17	B - 3		
IC2	H - 6			RV18	C - 8		
IC3	H - 4			RV19	C - 2		
IC4	K - 6			RV20	B - 2		
IC5	J - 6			RV21	B - 8		
IC6	J - 6			RV22	B - 8		
IC7	O - 4			RV23	M - 7		
IC8	D - 6			RV24	M - 6		
IC9	D - 6			RV25	M - 6		
IC10	D - 4			RV26	N - 6		
IC11	F - 7			RV27	O - 6		
IC12	G - 4			RV28	O - 6		
IC13	F - 4			RV30	M - 6		
IC14	A - 6			RV1208	B - 2		
IC15	A - 6			RV1218	B - 8		
IC16	A - 4						
IC17	C - 7			S1	L - 5		
IC18	C - 4			S2	L - 5		
IC19	C - 4			S3	L - 5		
IC20	O - 4						
IC21	O - 3						
IC22	M - 4						
IC23	N - 1						
IC24	N - 2						
IC25	O - 2						
Q1	I - 6						
Q2	I - 6						
Q3	K - 8						
Q5	K - 6						
Q6	K - 6						
Q7	I - 4						
Q8	H - 4						
Q9	G - 3						
Q10	H - 3						
Q11	H - 2						
Q12	H - 2						
Q13	H - 2						
Q15	H - 2						
Q16	J - 1						
Q17	J - 1						
Q18	K - 1						
Q19	K - 5						
Q20	F - 5						
Q21	E - 6						
Q22	G - 7						
Q24	F - 6						
Q25	F - 7						
Q26	F - 3						
Q27	D - 3						
Q28	D - 2						
Q29	E - 2						
Q30	E - 2						
Q31	E - 2						
Q32	I - 3						
Q33	F - 2						
Q34	E - 1						
Q35	F - 1						
Q36	E - 1						
Q37	F - 1						
Q38	B - 6						
Q39	B - 6						
Q40	D - 6						
Q42	C - 6						
Q43	C - 6						
Q44	B - 3						
Q45	B - 3						
Q46	A - 2						
Q47	B - 2						
Q48	B - 2						
Q49	B - 2						
Q50	C - 2						
Q51	A - 1						
Q52	B - 1						
Q53	A - 1						
Q54	B - 1						
Q57	M - 8						
Q58	M - 7						
Q59	M - 6						
Q60	N - 6						
Q61	N - 6						
Q62	O - 6						
Q63	N - 7						
Q64	N - 7						
Q65	O - 7						
Q66	O - 7						
Q67	N - 7						
Q68	N - 8						
Q69	K - 4						
Q70	L - 6						
Q71	K - 6						
Q72	K - 6						
Q73	M - 5						

PR-49 BOARD


IC1 BX1035 AMP/FB CLAMP
IC2 BX1082 AMP/FB CLAMP
IC3 SL3127C E CORRECTOR
IC4 NJM1496M
IC5 BX1304 AMP/FB CLAMPER
IC6 BX1082(1/2) AMP/FB CLAMPER
IC6 BX1082(2/2) PR FAIL SIG GEN
IC7 TL064CNS AMP
IC8 BX1305 AMP/FB CLAMP
IC9 BX1082 AMP/FB CLAMP
IC10 SL3127C E CORRECTOR
IC11 NJM1496M
IC12 BX1304 AMP/FB CLAMPER
IC13 BX1082(1/2) AMP/FB CLAMPER
IC13 BX1082(2/2) PR FAIL SIG GEN
IC14 BX1305 AMP/FB CLAMP
IC15 BX1082 AMP/FB CLAMP
IC16 SL3127C E CORRECTOR
IC17 NJM1496M
IC18 BX1304 AMP/FB CLAMPER
IC19 BX1082(1/2) AMP/FB CLAMPER
IC19 BX1082(2/2) PR FAIL SIG GEN
IC20 BX1179 E/PED CONTROL SIGNAL MULTIPLEXER
IC21 BX1179 KNEE/APT/DTL CONTROL SIGNAL MULTIPLEXER
IC22 TC4053BF CLIPPER
IC22 TC4053BF BUFF
IC22 TC4053BF
IC23 TC4512BF FAIL SIG DEMULTIPLEXER
IC24 TC4053BF
IC25 TC4011BF
Q1 2SK152 CLAMP MIX
Q2 2SK152 CLAMP MIX
Q3 2SK152 E SW
Q5 2SC1009A BUFF
Q6 2SA1226
Q7 2SC1623 KNEE
Q8 2SA1226 BUFF
Q9 2SA1226 WHT CLIP
Q10 2SA1226 SYSTEM BLANK
Q11,Q12 2SC1623 BLK CLIP
Q13 2SA1226 BUFF
Q15 2SA1226 BUFF
Q16 ~Q18 2SC1009A R BUFF
Q32 2SC1009A WHT CLIP/KNEE SW
Q38,Q39 2SK152 CLAMP MIX
Q40 2SK152 E SW
Q42 2SC1009A BUFF
Q43 2SA1226
Q44 2SC1623 KNEE
Q45 2SA1226 BUFF
Q46 2SA1226 WHT CLIP
Q47 2SA1226 SYSTEM BLANK
Q48,Q49 2SC1623 BLK CLIP
Q50 2SA1226
Q51 2SA1226 BUFF
Q52~Q54 2SC1009A G BUFF
Q57~Q62 2SC1009A MIXER
Q63~Q68 2SA1226 AMP
Q69 2SC1009A MASKING SWITCH
Q72 2SC1009A BUFF
Q20 2SK152 CLAMP MIX
Q21 2SK152
Q22 2SK152 E SW
Q24 2SC1009A BUFF
Q25 2SA1226
Q26 2SC1623 KNEE
Q27 2SA1226 BUFF
Q28 2SA1226 WHT CLIP
Q29 2SA1226 SYSTEM BLANK
Q30,Q31 2SC1623 BLK CLIP
Q33 2SA1226 BUFF
Q34 2SA1226
Q35~Q37 2SC1009A B BUFF
Q70 2SC1009A DTL AMP
Q71 2SA1226
Q72 2SC1009A BUFF
Q73 2SA1226 CLIPPER
D1 1SS355
D2 1SS355
D3 1SS355
D4 1SS355
D5 1S2835
D6 1S2837
D7 1S2835
D8 1SS355
D9 1SS355
D10 1SS355
D11 1SS355
D12 1SS355
D13 1S2837
L1 47µH
L2 47µH
L3 47µH
L4 47µH
L5 47µH
L6 47µH
L7 47µH
L8 47µH
L9 47µH
L10 47µH
L11 47µH
L12 47µH
THP1 3300
THP2 3300
THP3 3300
SAMPLE HOLD
+CAR -CAR GAIN
VEE BIAS
+5V
+9V IN
-9V IN
GND
R(IE) IN
DTL IN
NAM Y OUT
G(IE) IN
B(IE) IN
MASK ON IN
AT KNEE ON IN
FUNCTION EN IN
GAMMA ON I/O
M.PED CONT IN
R(PR) 3 OUT
R(PR) 1 OUT
R(PR) 2 OUT
WC/KNEE CAPTURE IN
G(PR) 3 OUT
G(PR) 1 OUT
G(PR) 2 OUT
GATE MARKER IN
SYSTEM BL IN
B(PR) 3 OUT
B(PR) 1 OUT
B(PR) 2 OUT
CONT DATA IN
CHU DIAG OUT
VA DIAG IN
IE DIAG IN
SG DIAG IN
SCAN FAIL IN
NC
PS DIAG IN
BEAM BL FAIL IN
CLAMP IN
DTL CONT OUT
APT CONT OUT
ADRS A IN
ADRS B IN
ADRS C IN
ADRS F IN
ADRS D IN
PED CONT
KNEE CONT
MAST PED CONT
PR-49
BVP-360(J,UC)
BVP-360P(AE)

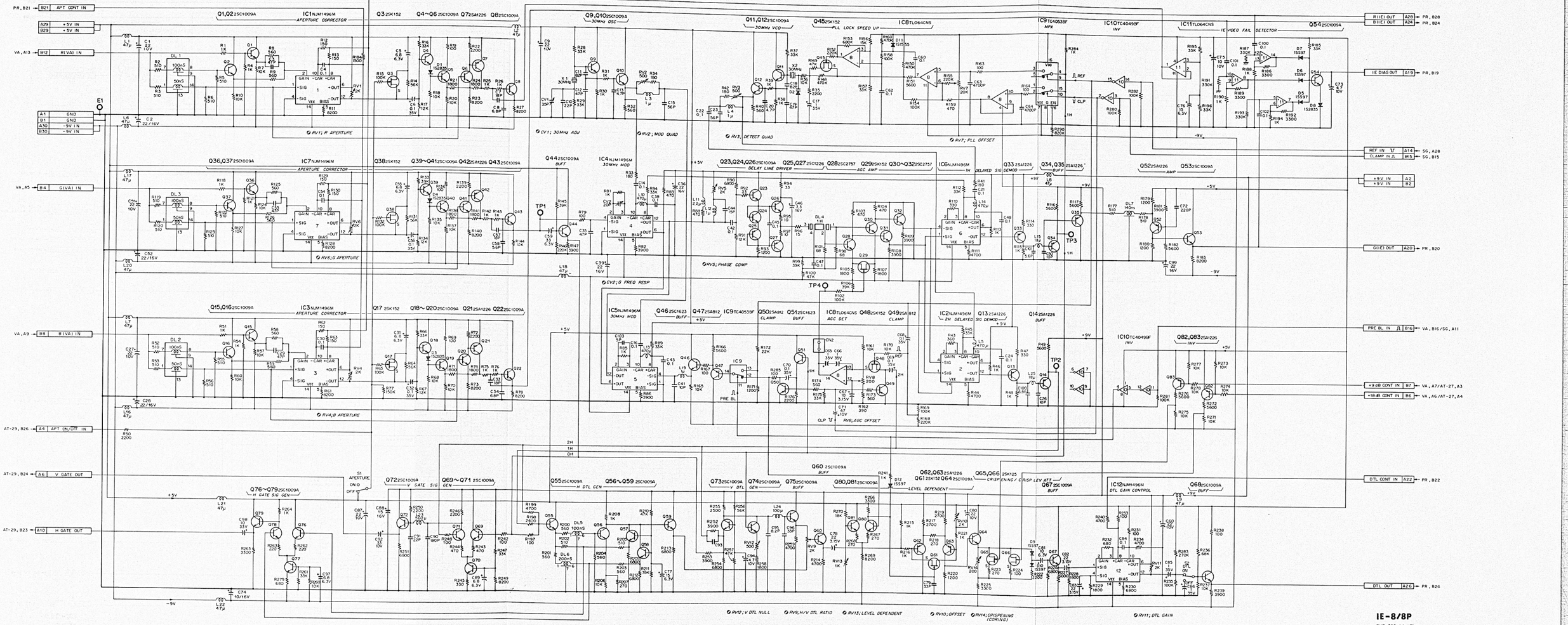
IE-8/8P BOARD
– SOLDERING SIDE –



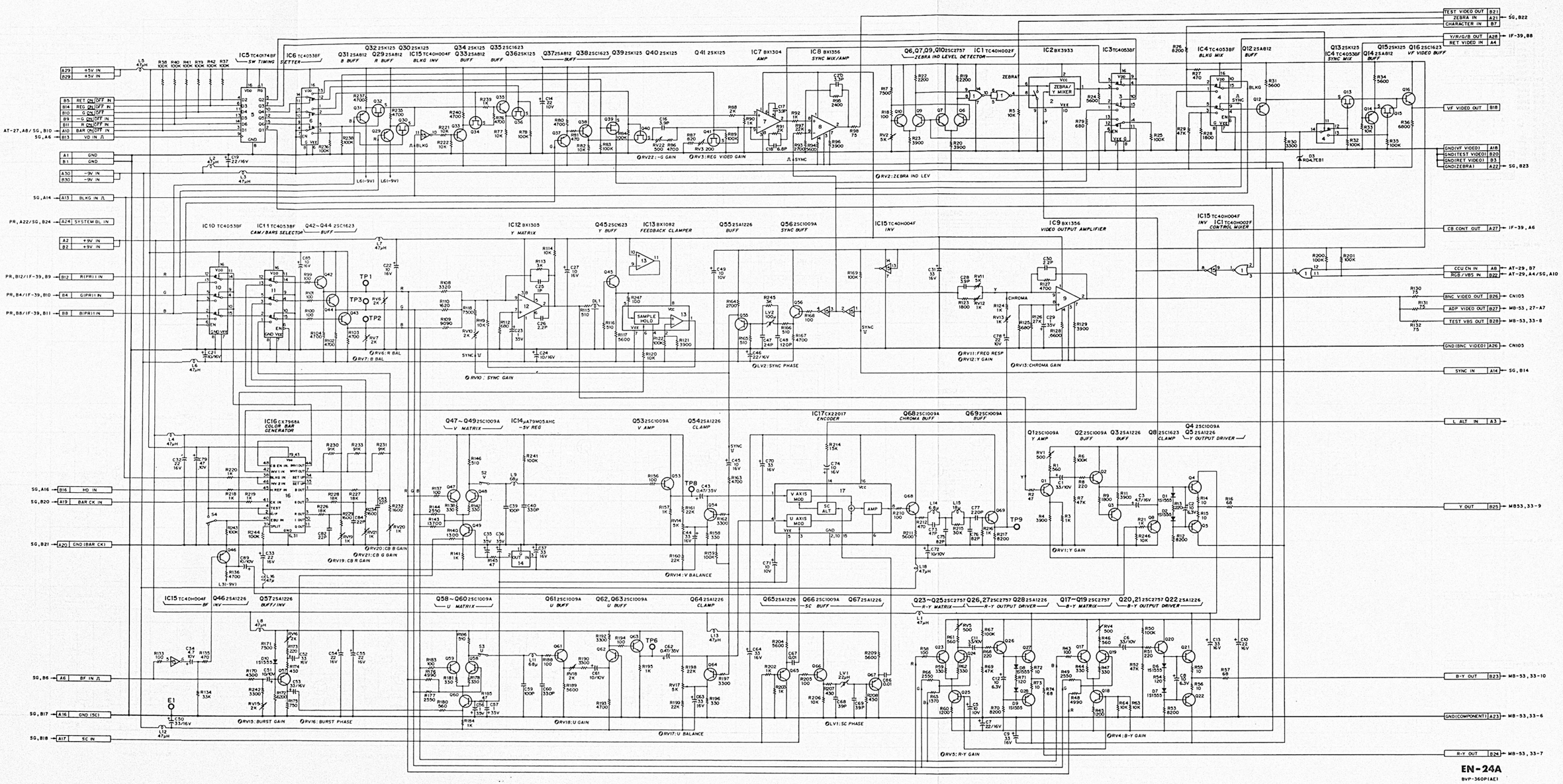
IE-8/8P BOARD
– SOLDERING SIDE –
1-615-013-11
BVP-360 (J,UC)
BVP-360P(AE)

CN1	L - 2	RV1	G - 3
CN2	E - 4	RV2	A - 7
		RV3	F - 7
CV1	B - 8	RV4	E - 3
CV2	A - 5	RV5	B - 6
		RV6	B - 3
D1	H - 4	RV7	J - 5
D2	G - 8	RV8	K - 5
D3	E - 4	RV9	N - 8
D4	C - 4	RV10	M - 7
D5	K - 4	RV11	J - 8
D6	K - 4	RV12	M - 4
D7	K - 3	RV13	K - 8
D8	L - 3	RV14	J - 8
D9	K - 7		
D10	K - 8	S1	H - 7
D11	K - 6	S2	I - 7
D12	L - 3		
		TP1	B - 4
DL1	G - 2	TP2	L - 3
DL2	E - 2	TP3	H - 7
DL3	B - 2	TP4	F - 4
DL5	M - 5	TP5	H - 8
DL6	O - 5		
DL7	I - 6		
E1	A - 8		
IC1	F - 3		
IC2	G - 5		
IC3	D - 3		
IC4	A - 5		
IC5	B - 5		
IC6	F - 5		
IC7	A - 3		
IC8	K - 6		
IC9	L - 6		
IC10	K - 1		
IC11	J - 4		
IC12	J - 7		
Q1	G - 2		
Q2	H - 2		
Q3	H - 3		
Q4	H - 4		
Q5	G - 4		
Q6	F - 3		
Q7	G - 4		
Q8	G - 4		
Q9	A - 7		
Q10	A - 7		
Q11	F - 8		
Q12	G - 7		
Q13	H - 5		
Q14	G - 7		
Q15	E - 2		
Q16	E - 2		
Q17	E - 3		
Q18	E - 4		
Q19	E - 4		
Q20	D - 3		
Q21	D - 4		
Q22	D - 4		
Q23	B - 7		
Q24	B - 8		
Q25	C - 8		
Q26	D - 7		
Q27	D - 8		
Q28	D - 5		
Q29	D - 5		
Q30	D - 5		
Q31	E - 5		
Q32	E - 5		
Q33	F - 5		
Q34	F - 7		
Q35	H - 7		
Q36	B - 2		
Q37	C - 2		
Q38	C - 3		
Q39	C - 3		
Q40	B - 3		
Q41	A - 3		
Q42	A - 4		
Q43	B - 4		
Q44	I - 4		
Q45	K - 6		
Q46	L - 6		
Q47	M - 6		
Q48	K - 5		
Q49	K - 4		
Q50	L - 4		
Q51	L - 4		
Q52	I - 6		
Q53	I - 5		
Q54	K - 3		
Q55	M - 8		
Q56	N - 8		
Q57	O - 8		
Q58	M - 7		
Q59	N - 8		
Q60	M - 8		
Q61	M - 8		
Q62	M - 8		
Q63	L - 7		
Q64	L - 7		
Q65	K - 7		
Q66	L - 7		
Q67	K - 8		
Q68	I - 8		
Q69	M - 3		
Q70	M - 3		
Q71	N - 3		
Q72	N - 3		
Q73	N - 4		
Q74	M - 4		
Q75	N - 4		
Q76	M - 6		
Q77	N - 6		
Q78	O - 6		
Q79	N - 5		
Q80	L - 8		
Q81	L - 8		
Q82	N - 2		
Q83	O - 2		

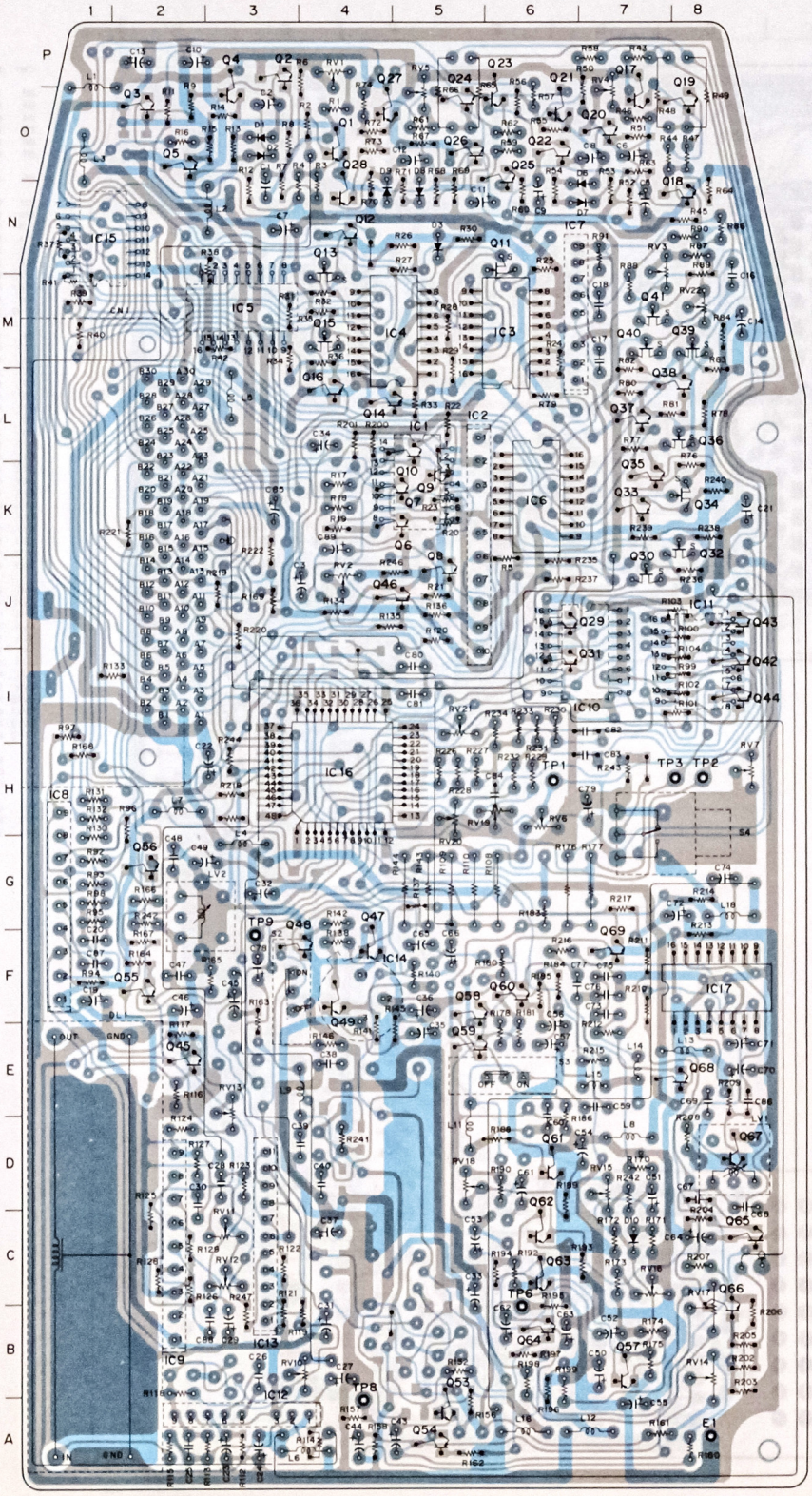
IE-8/8P BOARD



IE-8/8P
BVP-360 (J,UC)
BVP-360P (AE)


EN-24A
BVP-360P1AE1

EN-24/24A BOARD
– SOLDERING SIDE –

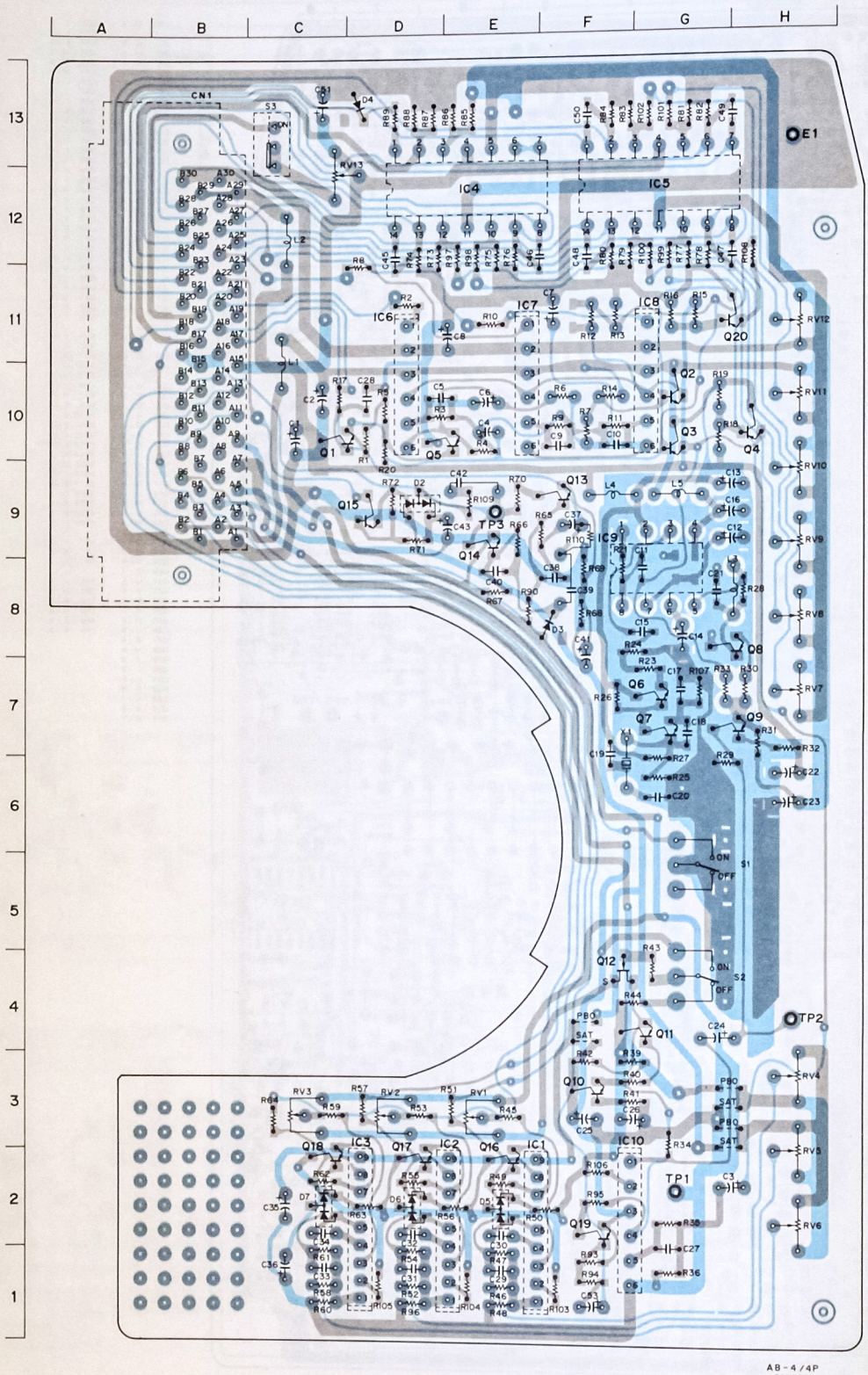


CN1	M - 2		Q36	L - 8			
			Q37	L - 7			
D1	O - 3		Q38	L - 8			
D2	O - 3		Q39	M - 7			
D3	N - 5		Q40	M - 8			
D6	N - 7		Q41	M - 7			
D7	N - 7		Q42	I - 8			
D8	N - 5		Q43	J - 8			
D9	N - 4		Q44	I - 8			
D10	C - 7		Q45	E - 2			
			Q46	J - 5			
DL1	C - 1		Q47	F - 4			
DL2	D - 5		Q48	F - 4			
			Q49	F - 4			
E1	A - 8		Q53	A - 5			
			Q54	A - 5			
IC1	K - 5		Q55	F - 2			
IC2	K - 5		Q56	G - 2			
IC3	M - 6		Q57	B - 7			
IC4	M - 4		Q58	F - 5			
IC5	M - 3		Q59	E - 5			
IC6	K - 6		Q60	F - 6			
IC7	M - 6		Q61	D - 6			
IC8	G - 1		Q62	C - 6			
IC9	C - 2		Q63	C - 6			
IC10	I - 7		Q64	B - 6			
IC11	I - 8		Q65	C - 8			
IC12	A - 3		Q66	B - 8			
IC13	C - 3		Q67	D - 8			
IC14	F - 4		Q68	E - 8			
IC15	N - 1		Q69	F - 7			
IC16	H - 4						
IC17	F - 8		RV1	P - 4			
			RV2	J - 4			
LV1	D - 8		RV3	N - 7			
LV2	G - 2		RV4	O - 7			
			RV5	O - 5			
Q1	O - 4		RV6	H - 6			
Q2	P - 3		RV7	H - 8			
Q3	O - 2		RV9	E - 3			
Q4	O - 3		RV10	B - 4			
Q5	O - 2		RV11	C - 3			
Q6	K - 5		RV12	C - 3			
Q7	K - 5		RV13	E - 3			
Q8	J - 5		RV14	B - 8			
Q9	K - 5		RV15	D - 7			
Q10	K - 5		RV16	C - 7			
Q11	N - 6		RV17	B - 8			
Q12	N - 4		RV18	D - 5			
Q13	M - 4		RV19	H - 6			
Q14	L - 5		RV20	H - 5			
Q15	M - 4		RV21	I - 5			
Q16	L - 4						
Q17	O - 7		S2	F - 3			
Q18	N - 8		S3	E - 6			
Q19	O - 8		S4	H - 7			
Q20	O - 7						
Q21	O - 6		TP1	H - 6			
Q22	O - 6		TP2	H - 8			
Q23	O - 6		TP3	H - 8			
Q24	O - 5		TP6	B - 6			
Q25	O - 6		TP8	A - 4			
Q26	O - 5		TP9	F - 3			
Q27	O - 4						
Q28	N - 4						
Q29	J - 6						
Q30	J - 7						
Q31	I - 6						
Q32	K - 8						
Q33	K - 7						
Q34	K - 8						
Q35	K - 7						

EN-24A BOARD
–SOLDERING SIDE–
1-615-018-21
BVP-360P(EK)

AB-4/4P BOARD

– SOLDERING SIDE –



CN1 B - 12

D2 D - 9
D3 F - 8
D4 D - 13
D5 E - 2
D6 D - 2
D7 C - 2

E1 H - 13

IC1 E - 2
IC2 E - 2
IC3 D - 2
IC4 D - 12
IC5 G - 12
IC6 D - 10
IC7 E - 10
IC8 G - 10
IC9 G - 8
IC10 G - 2

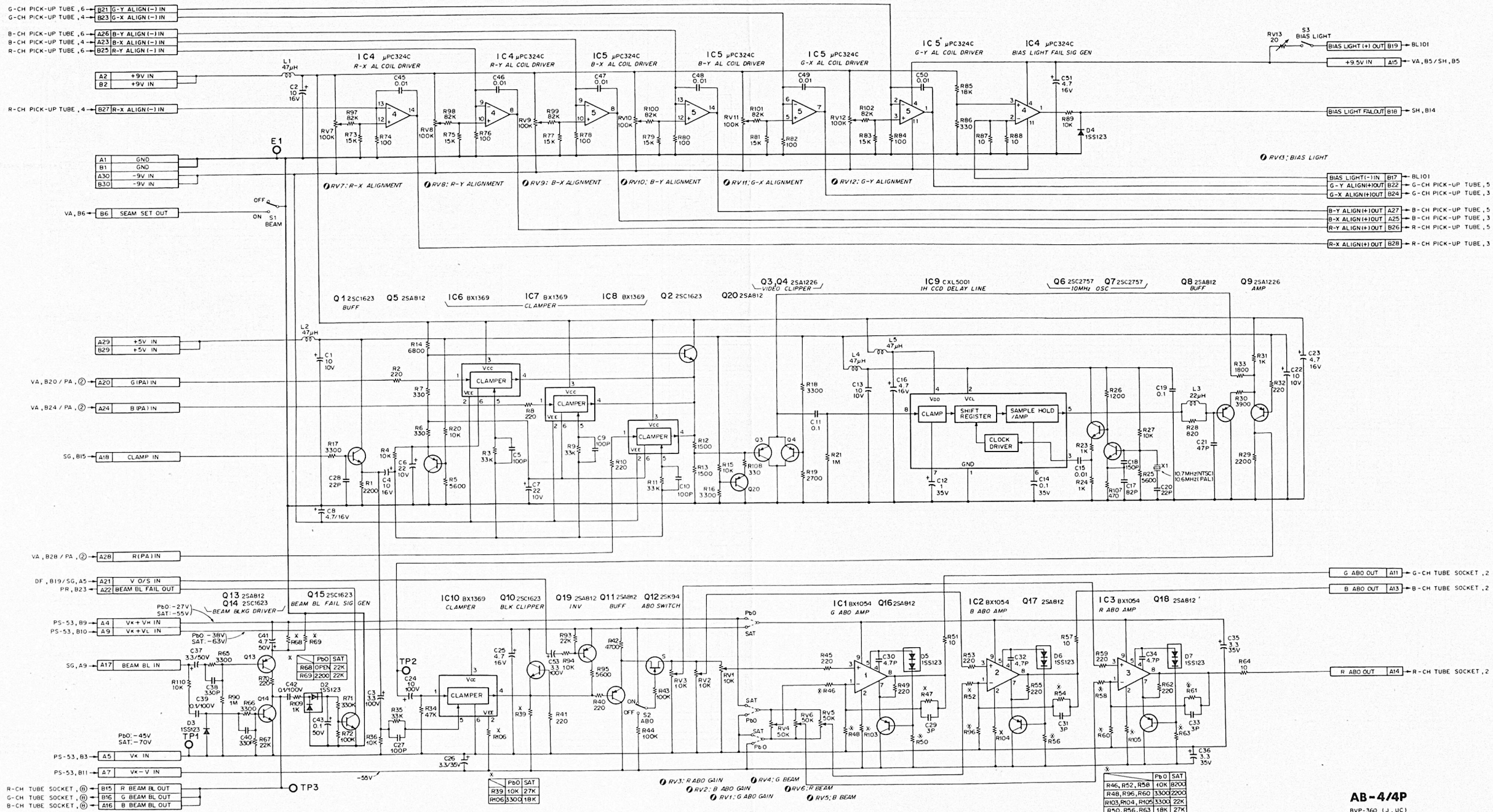
Q1 C - 10
Q2 G - 10
Q3 G - 10
Q4 H - 10
Q5 E - 10
Q6 G - 7
Q7 G - 7
Q8 H - 8
Q9 H - 7
Q10 F - 3
Q11 G - 4
Q12 F - 4
Q13 F - 9
Q14 E - 9
Q15 D - 9
Q16 E - 2
Q17 D - 2
Q18 C - 2
Q19 F - 2
Q20 H - 11

RV1 E - 3
RV2 D - 3
RV3 C - 3
RV4 H - 3
RV5 H - 2
RV6 H - 2
RV7 H - 7
RV8 H - 8
RV9 H - 9
RV10 H - 9
RV11 H - 10
RV12 H - 11
RV13 C - 12

S1 G - 5
S2 G - 4
S3 C - 13

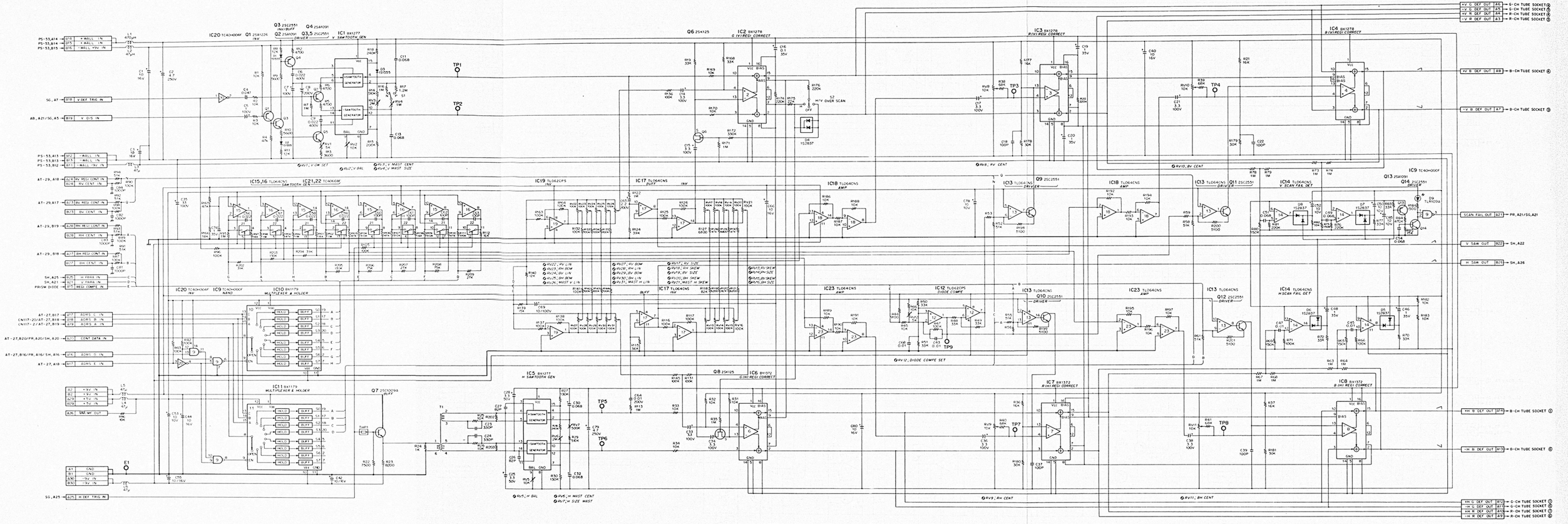
TP1 G - 2
TP2 H - 4
TP3 E - 9

AB-4/4P BOARD


G-CH PICK-UP TUBE ,6 → B21 G-Y ALIGN(−) IN
G-CH PICK-UP TUBE ,4 → B23 G-X ALIGN(−) IN
B-CH PICK-UP TUBE ,6 → A26 B-Y ALIGN(−) IN
B-CH PICK-UP TUBE ,4 → A23 B-X ALIGN(−) IN
R-CH PICK-UP TUBE ,6 → B25 R-Y ALIGN(−) IN
A2 +9V IN
B2 +9V IN
R-CH PICK-UP TUBE ,4 → B27 R-X ALIGN(−) IN
A1 GND
B1 GND
A30 −9V IN
B30 −9V IN
VA ,B6 → B6 SEAM SET OUT
OFF
ON S1 BEAM
E1
L1 47μH
C2 10 16V
IC4 μPC324C R-X AL COIL DRIVER
IC4 μPC324C R-Y AL COIL DRIVER
IC5 μPC324C B-X AL COIL DRIVER
IC5 μPC324C B-Y AL COIL DRIVER
IC5 μPC324C G-X AL COIL DRIVER
IC5* μPC324C G-Y AL COIL DRIVER
IC4 μPC324C BIAS LIGHT FAIL SIG GEN
RV13 20
S3 BIAS LIGHT
BIAS LIGHT (+) OUT B19 → BL101
+9.5V IN A15 → VA,B5/SH,B5
BIAS LIGHT FAILOUT B18 → SH,B14
D4 1SS123
RV7: R-X ALIGNMENT
RV8: R-Y ALIGNMENT
RV9: B-X ALIGNMENT
RV10: B-Y ALIGNMENT
RV11: G-X ALIGNMENT
RV12: G-Y ALIGNMENT
RV13: BIAS LIGHT
BIAS LIGHT(−)IN B17 → BL101
G-Y ALIGN(+)OUT B22 → G-CH PICK-UP TUBE ,5
G-X ALIGN(+)OUT B24 → G-CH PICK-UP TUBE ,3
B-Y ALIGN(+)OUT A27 → B-CH PICK-UP TUBE ,5
B-X ALIGN(+)OUT A25 → B-CH PICK-UP TUBE ,3
R-Y ALIGN(+)OUT B26 → R-CH PICK-UP TUBE ,5
R-X ALIGN(+)OUT B28 → R-CH PICK-UP TUBE ,3
Q1 2SC1623 BUFF
Q5 2SA812
IC6 BX1369
IC7 BX1369
IC8 BX1369
CLAMPER
Q2 2SC1623
Q20 2SA812
Q3,Q4 2SA1226 VIDEO CLIPPER
IC9 CXL5001 1H CCD DELAY LINE
Q6 2SC2757 Q7 2SC2757 10MHz OSC
Q8 2SA812 BUFF
Q9 2SA1226 AMP
A29 +5V IN
B29 +5V IN
VA ,B20 / PA ,② → A20 G(PA) IN
VA ,B24 / PA ,② → A24 B(PA) IN
SG,B15 → A18 CLAMP IN
VA ,B28 / PA ,② → A28 R(PA) IN
DF ,B19/SG,A5 → A21 V O/S IN
PR ,B23 → A22 BEAM BL FAIL OUT
PS-53,B9 → A4 Vk+VH IN
PS-53,B10 → A9 Vk+VL IN
SG,A9 → A17 BEAM BL IN
PS-53,B3 → A5 Vk IN
PS-53,B11 → A7 Vk−V IN
R-CH TUBE SOCKET ,⑧ → B15 R BEAM BL OUT
G-CH TUBE SOCKET ,⑧ → B16 G BEAM BL OUT
B-CH TUBE SOCKET ,⑧ → A16 B BEAM BL OUT
TP1
TP2
TP3
Q13 2SA812
Q14 2SC1623
BEAM BLKG DRIVER
Q15 2SC1623
BEAM BL FAIL SIG GEN
IC10 BX1369 CLAMPER
Q10 2SC1623 BLK CLIPPER
Q19 2SA812 INV
Q11 2SA812 BUFF
Q12 2SK94 ABO SWITCH
IC1 BX1054 Q16 2SA812 G ABO AMP
IC2 BX1054 Q17 2SA812 B ABO AMP
IC3 BX1054 Q18 2SA812 R ABO AMP
G ABO OUT A11 → G-CH TUBE SOCKET ,2
B ABO OUT A13 → B-CH TUBE SOCKET ,2
R ABO OUT A14 → R-CH TUBE SOCKET ,2
RV1: G ABO GAIN
RV2: B ABO GAIN
RV3: R ABO GAIN
RV4: G BEAM
RV5: B BEAM
RV6: R BEAM
AB-4/4P
BVP-360 (J,UC)
BVP-360P(AE)

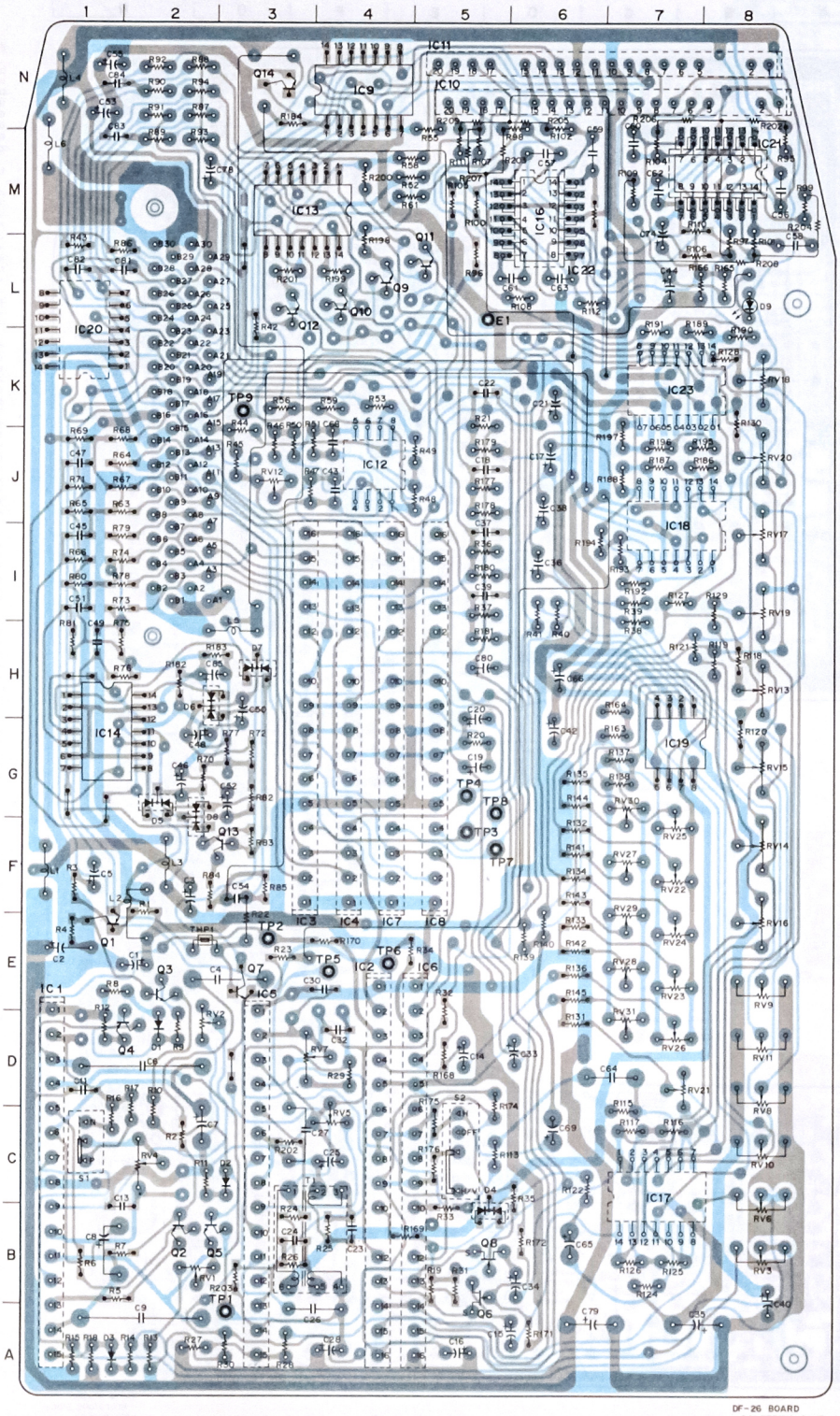
DF-26 BOARD

DF-26 DF-26



DF-26 BOARD

– SOLDERING SIDE –



DF-26 BOARD
– SOLDERING SIDE –
1-615-012-11
BVP-360 (J,UC)
BVP-360P(AE)

D1 D-2
D2 C-3
D3 A-1
D4 B-5
D5 G-2
D6 H-2
D7 H-3
D8 G-2
D9 L-8

E1 L-5

IC1 D-1
IC2 D-4
IC3 I-3
IC4 I-4
IC5 D-3
IC6 D-5
IC7 I-4
IC8 I-5
IC9 N-4
IC10 N-6
IC11 N-6
IC12 J-4
IC13 M-3
IC14 G-1
IC15 M-8
IC16 M-6
IC17 C-7
IC18 I-7
IC19 G-7
IC20 L-1
IC21 M-8
IC22 M-6
IC23 K-7

Q1 E-1
Q2 B-2
Q3 E-2
Q4 D-2
Q5 B-2
Q6 B-5
Q7 E-3
Q8 B-5
Q9 L-4
Q10 L-4
Q11 L-5
Q12 L-3
Q13 F-3
Q14 N-3

RV1 B-2
RV2 D-2
RV3 B-8
RV4 C-2
RV5 C-4
RV6 B-8
RV7 D-3
RV8 D-8
RV9 E-8
RV10 C-8
RV11 D-8
RV12 J-3
RV13 H-8
RV14 F-8
RV15 G-8
RV16 E-8
RV17 I-8
RV18 K-8
RV19 I-8
RV20 J-8
RV21 D-7
RV22 F-7
RV23 E-7
RV24 E-7
RV25 F-7
RV26 D-7
RV27 F-7
RV28 E-7
RV29 E-7
RV30 G-7
RV31 D-7

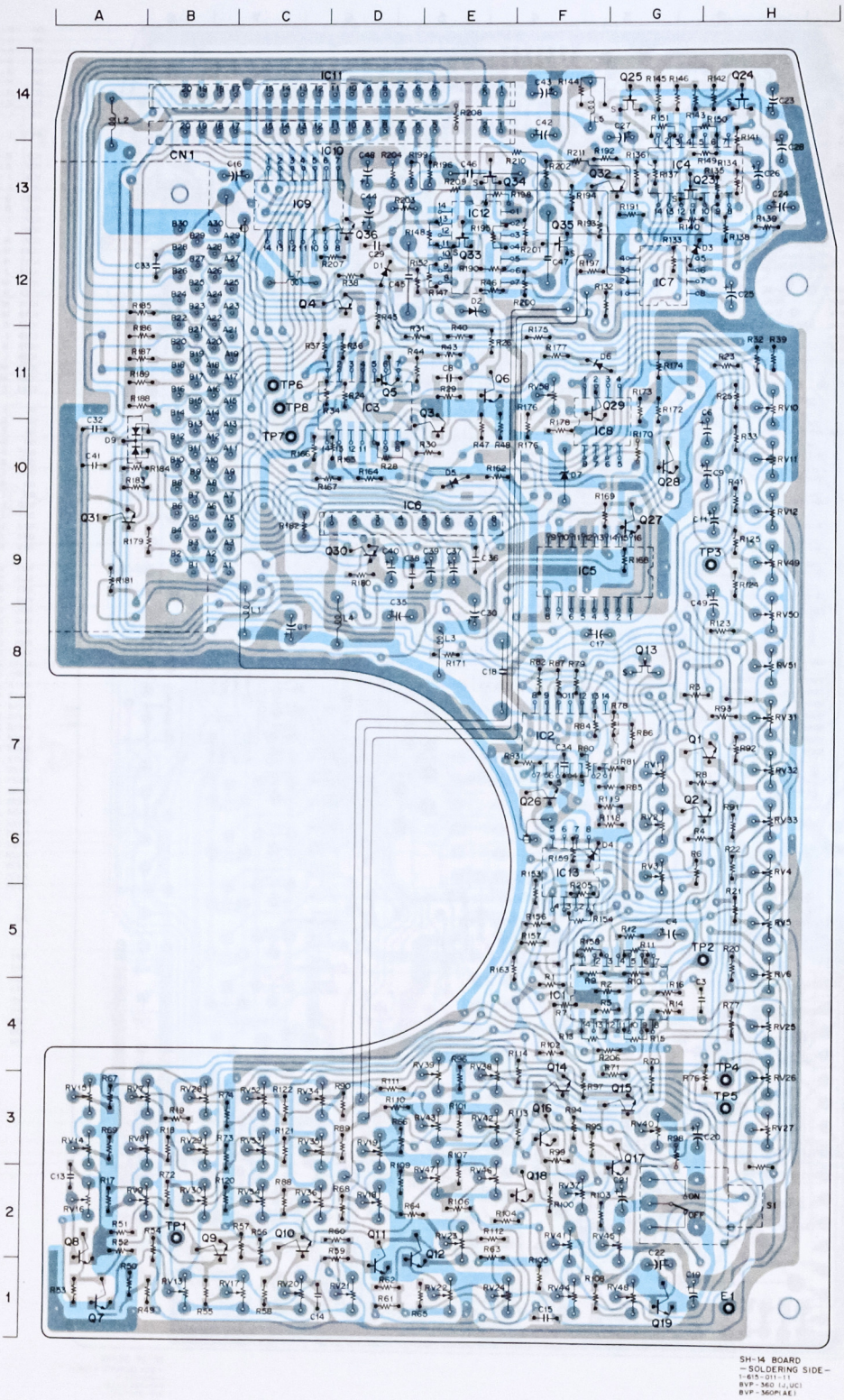
S1 C-1
S2 C-5

T1 B-4

TP1 A-3
TP2 E-3
TP3 F-5
TP4 G-5
TP5 E-4
TP6 E-4
TP7 F-5
TP8 G-5
TP9 K-3

SH-14 BOARD

– SOLDERING SIDE –



CN1 B - 12

D1 D - 12
D2 E - 12
D3 G - 12
D4 F - 6
D5 E - 10
D6 F - 11
D7 F - 10
D9 A - 10

E1 H - 1

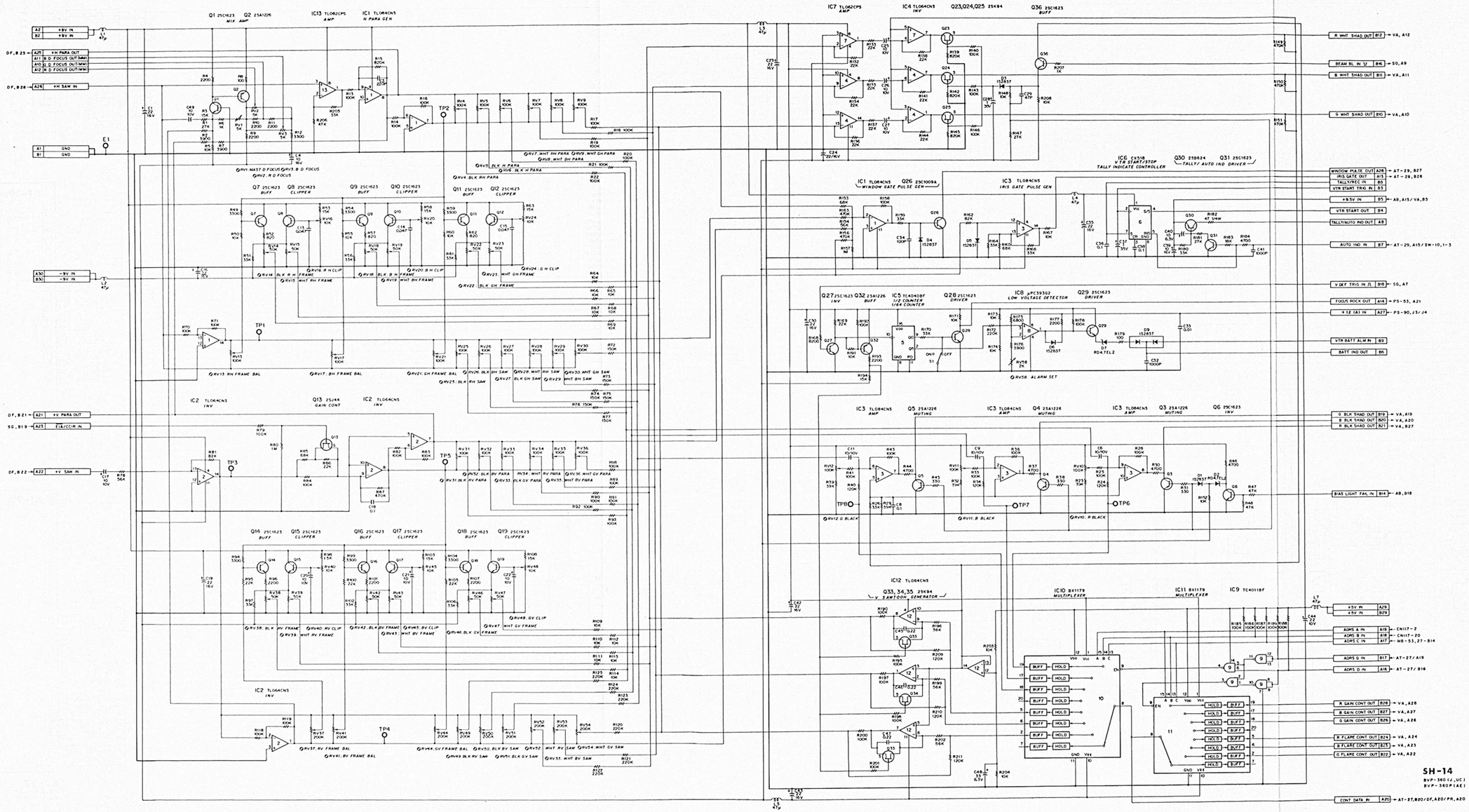
IC1 G - 4
IC2 F - 7
IC3 D - 11
IC4 G - 13
IC5 F - 9
IC6 D - 9
IC7 G - 12
IC8 F - 10
IC9 C - 13
IC10 D - 14
IC11 D - 14
IC12 E - 12
IC13 F - 6

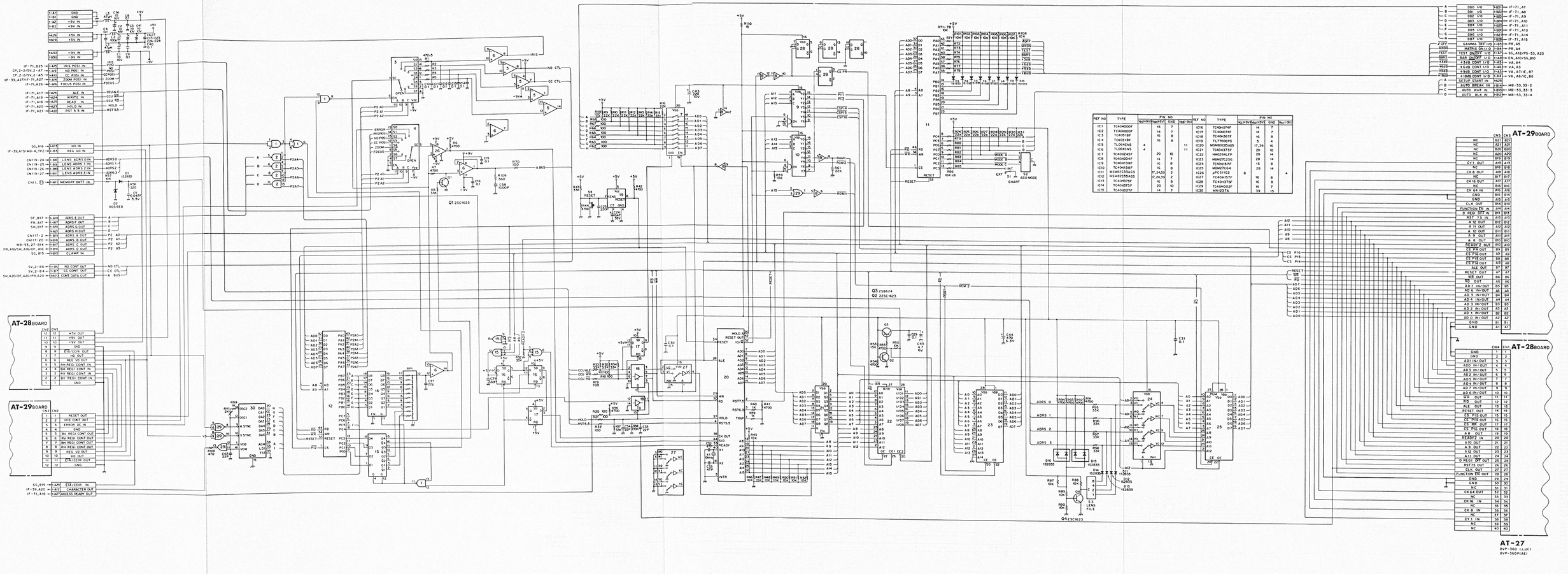
Q1 H - 7
Q2 H - 6
Q3 E - 10
Q4 C - 12
Q5 D - 11
Q6 E - 11
Q7 A - 1
Q8 A - 2
Q9 B - 2
Q10 C - 2
Q11 D - 2
Q12 D - 1
Q13 G - 8
Q14 F - 3
Q15 G - 3
Q16 F - 3
Q17 G - 3
Q18 F - 2
Q19 G - 1
Q23 G - 13
Q24 H - 14
Q25 G - 14
Q26 F - 6
Q27 G - 9
Q28 G - 10
Q29 F - 11
Q30 D - 9
Q31 A - 9
Q32 G - 13
Q33 E - 12
Q34 E - 13
Q35 F - 12
Q36 D - 13

RV1 G - 7
RV2 G - 6
RV3 G - 6
RV4 H - 6
RV5 H - 5
RV6 H - 5
RV7 A - 3
RV8 A - 3
RV9 A - 2
RV10 H - 11
RV11 H - 10
RV12 H - 10
RV13 B - 1
RV14 A - 3
RV15 A - 3
RV16 A - 2
RV17 B - 1
RV18 D - 2
RV19 D - 3
RV20 C - 1
RV21 D - 1
RV22 E - 1
RV23 E - 2
RV24 E - 1
RV25 H - 4
RV26 H - 4
RV27 H - 3
RV28 B - 3
RV29 B - 3
RV30 B - 2
RV31 H - 7
RV32 H - 7
RV33 H - 6
RV34 C - 3
RV35 C - 3
RV36 C - 2
RV37 F - 2
RV38 E - 4
RV39 E - 4
RV40 G - 3
RV41 F - 2
RV42 E - 3
RV43 E - 3
RV44 F - 1
RV45 G - 2
RV46 E - 2
RV47 E - 2
RV48 G - 1
RV49 H - 9
RV50 H - 8
RV51 H - 8
RV52 C - 3
RV53 C - 3
RV54 C - 2
RV58 F - 11

TP1 B - 2
TP2 H - 5
TP3 H - 9
TP4 H - 4
TP5 H - 3
TP6 C - 11
TP7 C - 10
TP8 C - 11

SH-14 BOARD




AT-28 BOARD
AT-29 BOARD
AT-29 BOARD
AT-28 BOARD
AT-27
BVP-360 (J,UC)
BVP-360P(AE)
CHART
Q1 2SC1623
Q2 2SC4623
Q3 2SB624
Q4 2SC4623
Q5 2SC4623
Q6 2SC4623
Q7 2SC4623
Q8 2SC4623
Q9 2SC4623
Q10 2SC4623
Q11 2SC4623
Q12 2SC4623
Q13 2SC4623
Q14 2SC4623
Q15 2SC4623
Q16 2SC4623
Q17 2SC4623
Q18 2SC4623
Q19 2SC4623
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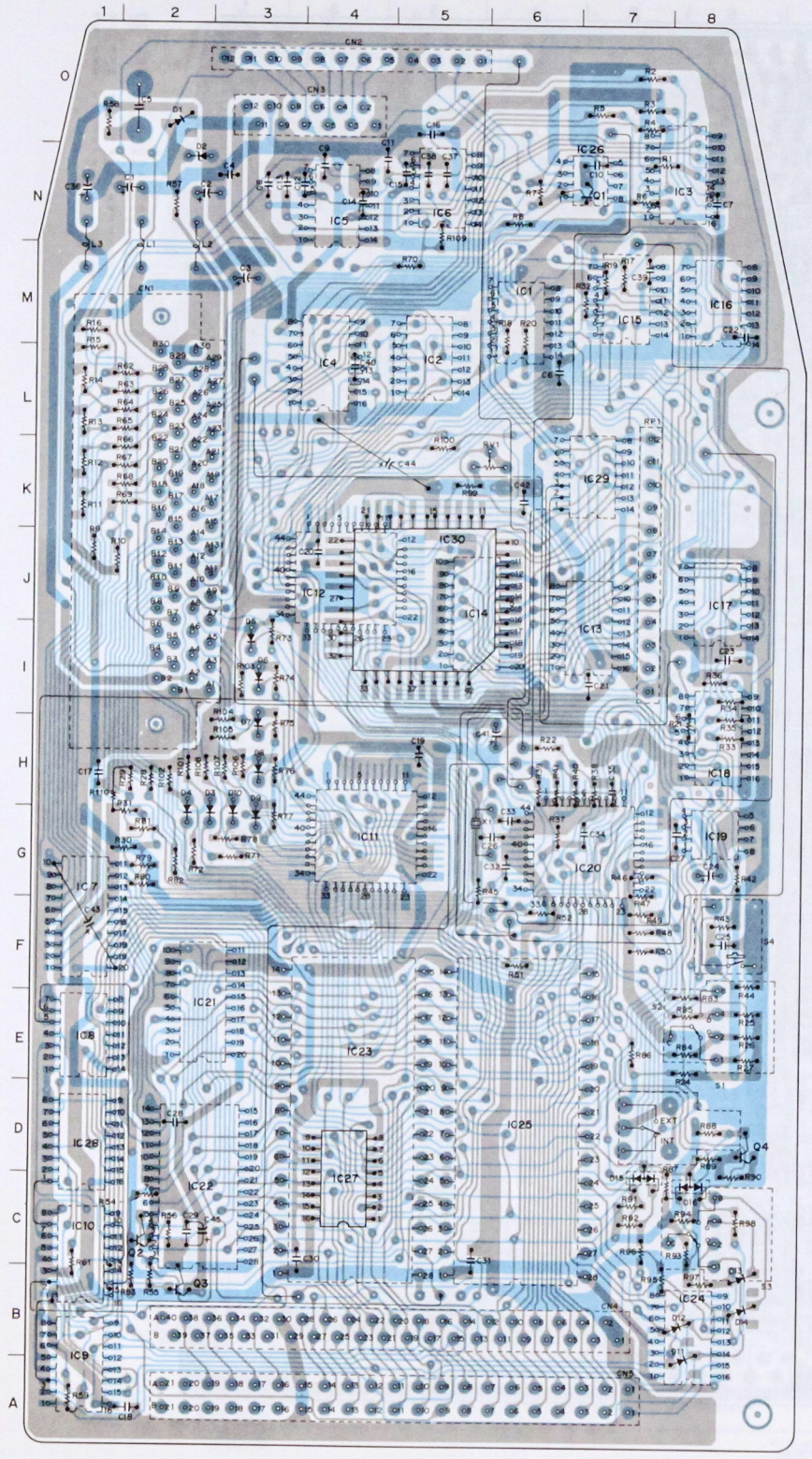
AT-27 BOARD
– SOLDERING SIDE –



CN1 L - 2
CN2 O - 4
CN3 O - 3
CN4 B - 5
CN5 A - 5

D1 O - 2
D2 N - 2
D3 G - 3
D4 G - 2
D5 I - 3
D6 I - 3
D7 H - 3
D8 H - 3
D9 G - 3
D10 G - 3
D11 B - 8
D12 B - 8
D13 B - 8
D14 B - 8
D15 C - 7
D16 C - 8

IC1 M - 6
IC2 L - 5
IC3 N - 8
IC4 I - 4
IC5 N - 4
IC6 N - 5
IC7 F - 1
IC8 E - 1
IC9 A - 1
IC10 C - 1
IC11 G - 4
IC12 J - 4
IC13 I - 7
IC14 J - 5
IC15 M - 7
IC16 M - 8
IC17 J - 8
IC18 H - 8
IC19 G - 8
IC20 G - 7
IC21 E - 2
IC22 C - 2
IC23 E - 4
IC24 B - 8
IC25 E - 6
IC26 N - 7
IC27 C - 4
IC28 D - 1
IC29 K - 7
IC30 J - 5

Q1 N - 7
Q2 C - 2
Q3 B - 2
Q4 D - 8

RP-1 K - 7

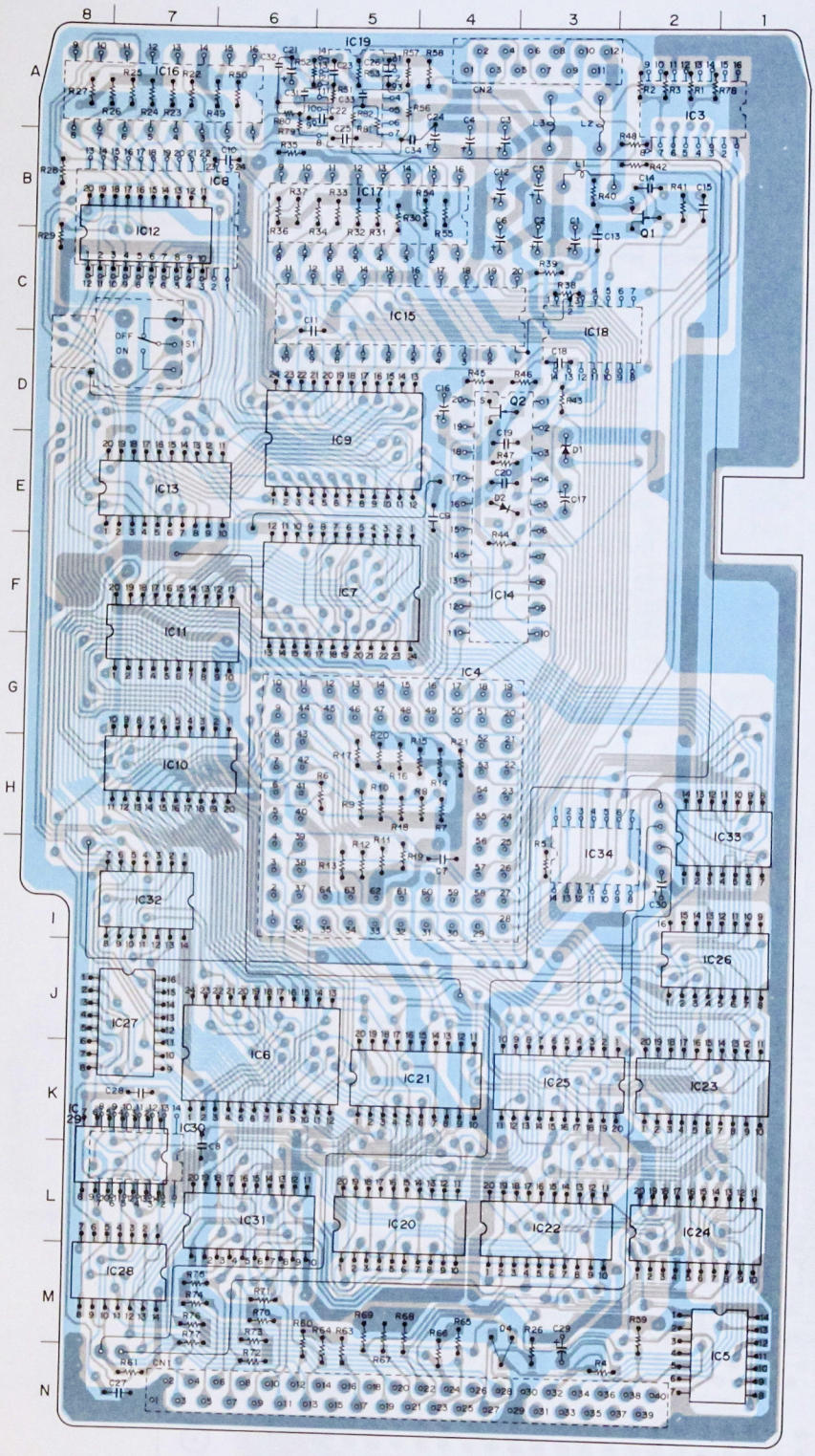
RV1 K - 5

S1 D - 8
S2 E - 8
S3 C - 8
S4 F - 8

X1 G - 5

AT-27 BOARD
– SOLDERING SIDE –
1-615-015-11
BVP-360(UC,JE)
BVP-360P(AE)

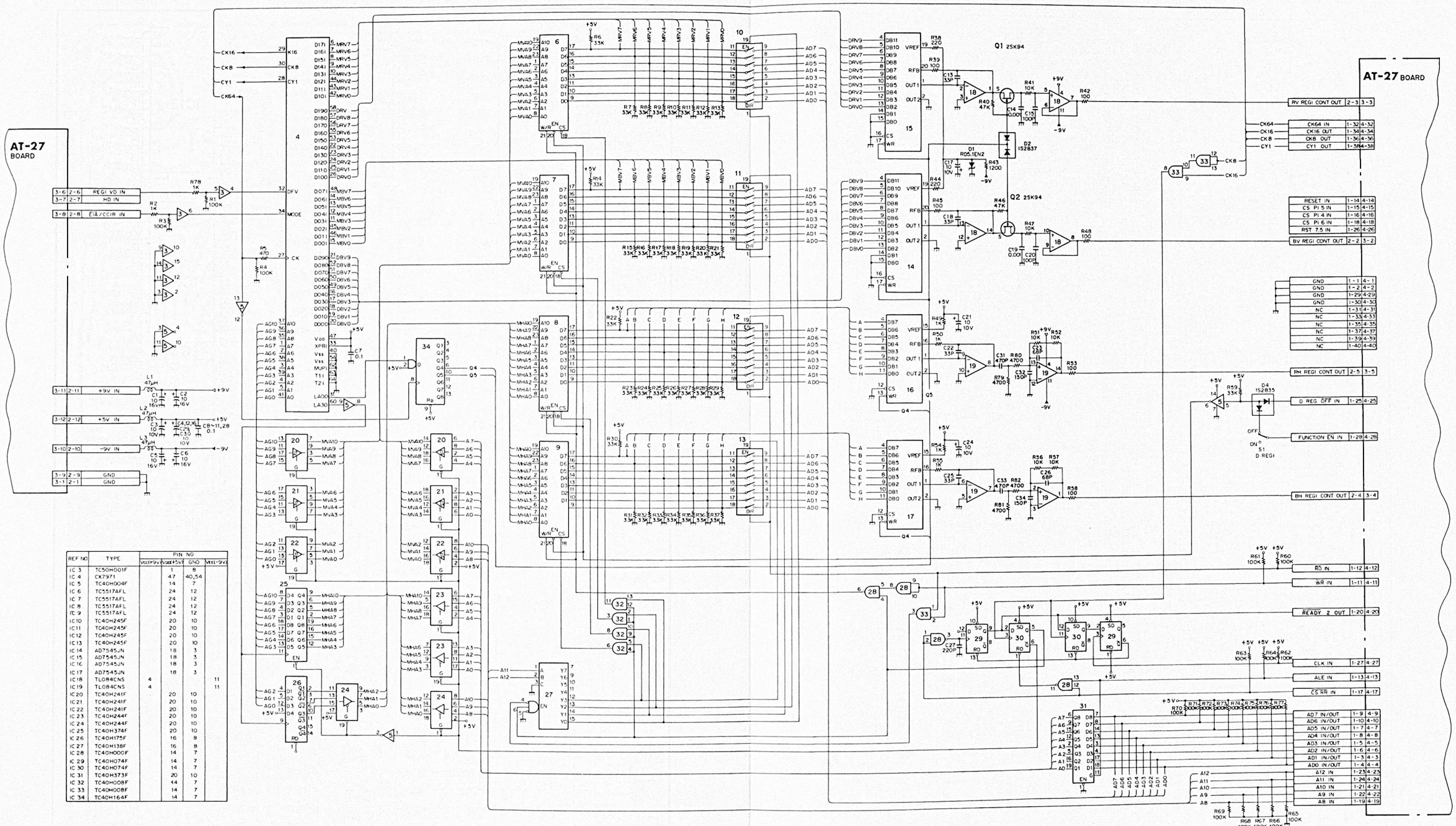
AT-28 BOARD
– SOLDERING SIDE –



CN1	N - 5
CN2	A - 3
D1	E - 3
D2	E - 4
D4	M - 3
IC3	A - 2
IC4	H - 5
IC5	M - 1
IC6	K - 6
IC7	F - 5
IC8	B - 7
IC9	D - 5
IC10	H - 7
IC11	F - 7
IC12	B - 7
IC13	E - 7
IC14	E - 4
IC15	C - 5
IC16	A - 7
IC17	B - 5
IC18	C - 3
IC19	A - 5
IC20	L - 4
IC21	K - 4
IC22	L - 3
IC23	K - 1
IC24	L - 1
IC25	K - 3
IC26	J - 1
IC27	J - 7
IC28	M - 7
IC29	L - 7
IC30	L - 7
IC31	L - 6
IC32	I - 7
IC33	H - 1
IC34	I - 3
Q1	B - 2
Q2	D - 4
S1	D - 7

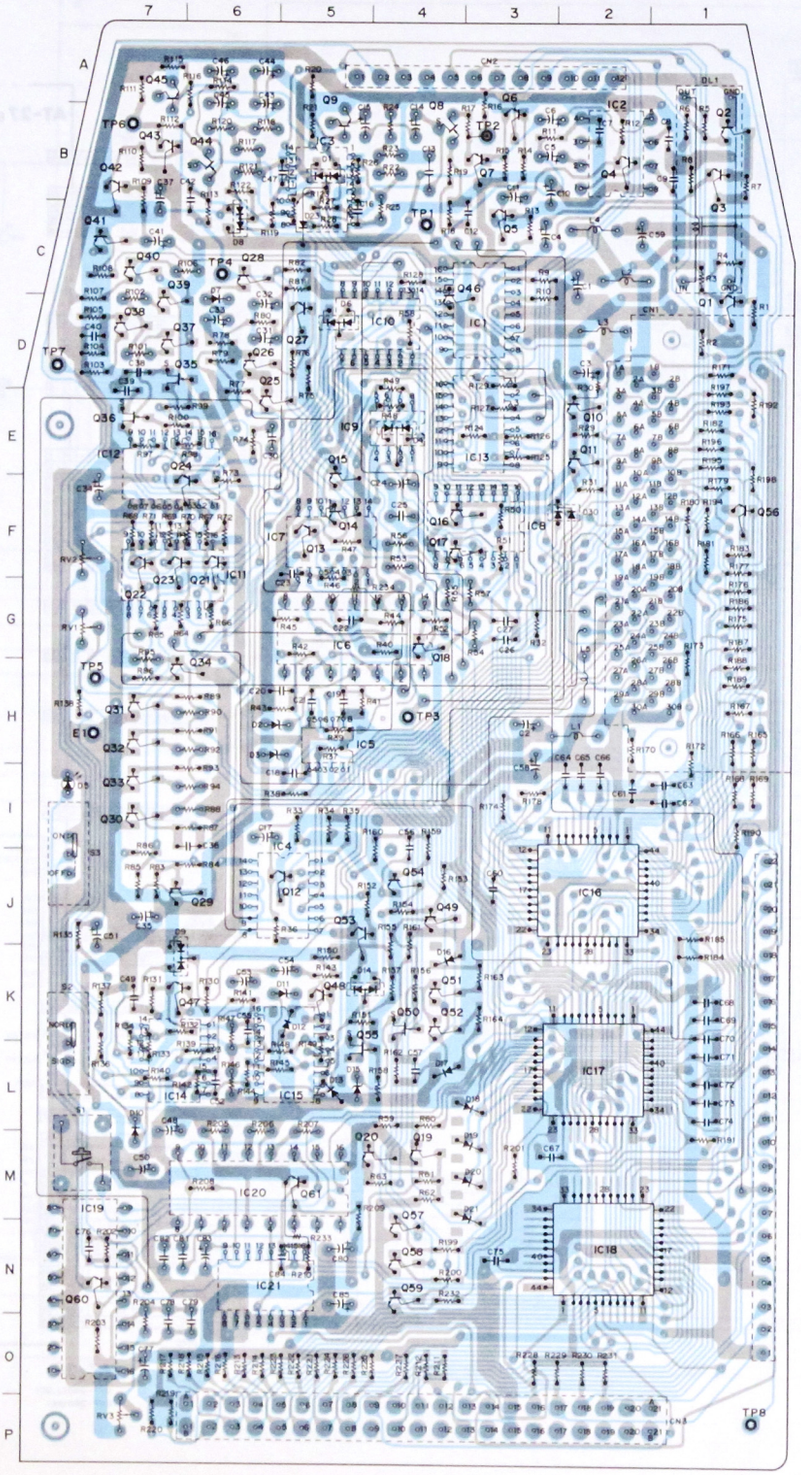
AT-28 BOARD
–SOLDERING SIDE–
1-615-016-11
BVP-360(UC,J)
BVP-360P(AE)

AT-28 BOARD

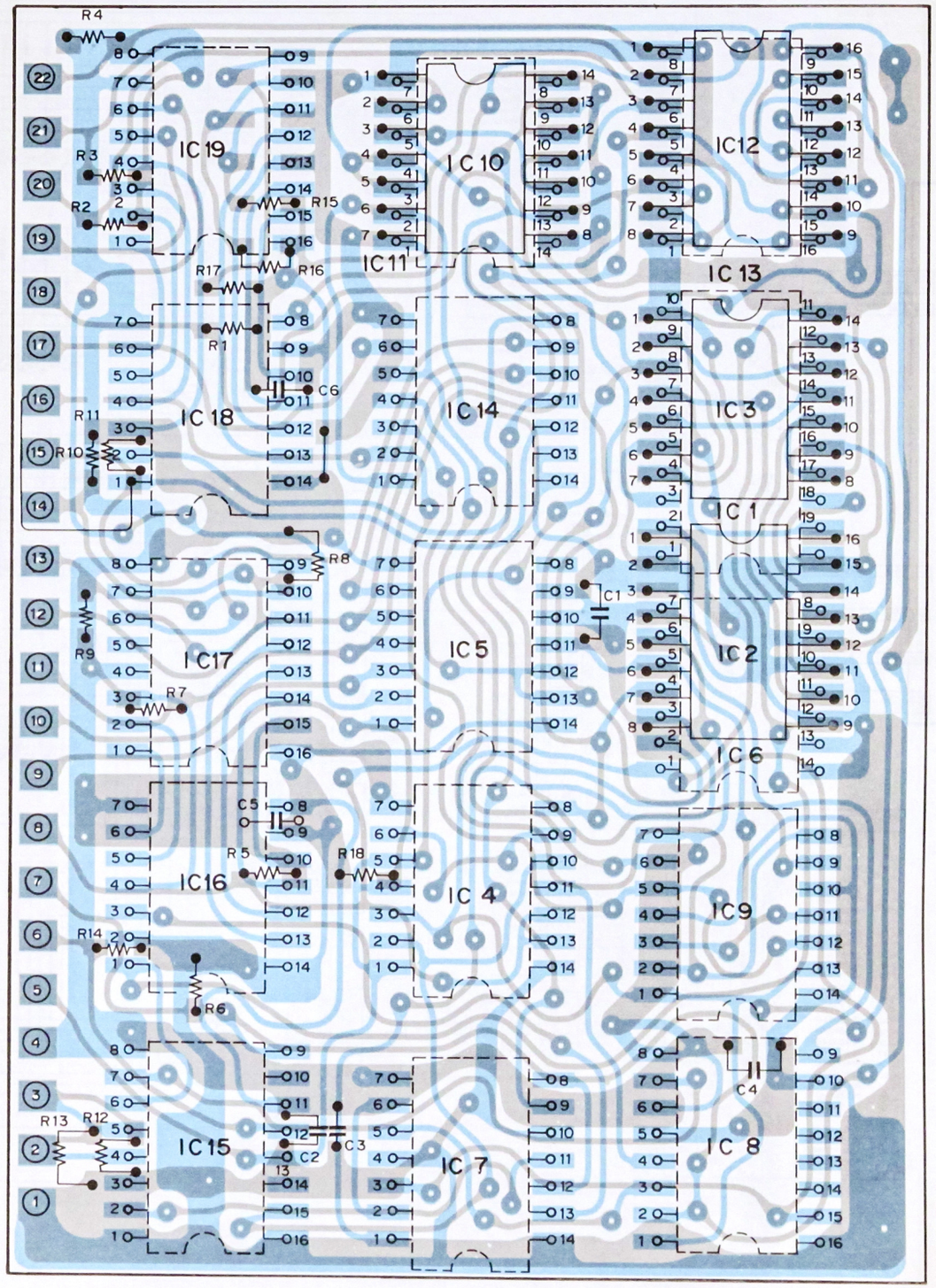


REF NO	TYPE	PIN NO Vcc(+9V)	Vgg(+5V)	GND	VEE(-9V)
IC 3	TC50H001F		1	8	
IC 4	CX7971		47	40,54	
IC 5	TC40H004F		14	7	
IC 6	TC5517AFL		24	12	
IC 7	TC5517AFL		24	12	
IC 8	TC5517AFL		24	12	
IC 9	TC5517AFL		24	12	
IC 10	TC40H245F		20	10	
IC 11	TC40H245F		20	10	
IC 12	TC40H245F		20	10	
IC 13	TC40H245F		20	10	
IC 14	AD7545JN		18	3	
IC 15	AD7545JN		18	3	
IC 16	AD7545JN		18	3	
IC 17	AD7545JN		18	3	
IC 18	TL084CNS	4			11
IC 19	TL084CNS	4			11
IC 20	TC40H241F		20	10	
IC 21	TC40H241F		20	10	
IC 22	TC40H241F		20	10	
IC 23	TC40H244F		20	10	
IC 24	TC40H244F		20	10	
IC 25	TC40H374F		20	10	
IC 26	TC40H175F		16	8	
IC 27	TC40H138F		16	8	
IC 28	TC40H000F		14	7	
IC 29	TC40H074F		14	7	
IC 30	TC40H074F		14	7	
IC 31	TC40H373F		20	10	
IC 32	TC40H008F		14	7	
IC 33	TC40H008F		14	7	
IC 34	TC40H164F		14	7	

AT-29 BOARD
– SOLDERING SIDE –



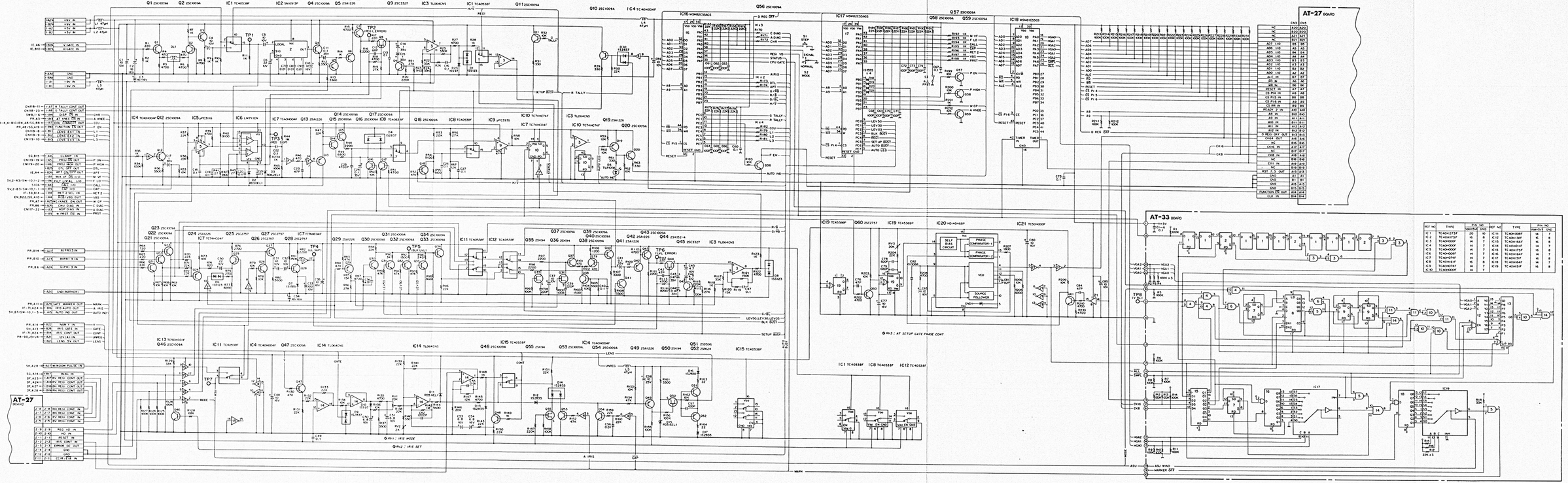
AT-33 BOARD
– SOLDERING SIDE –

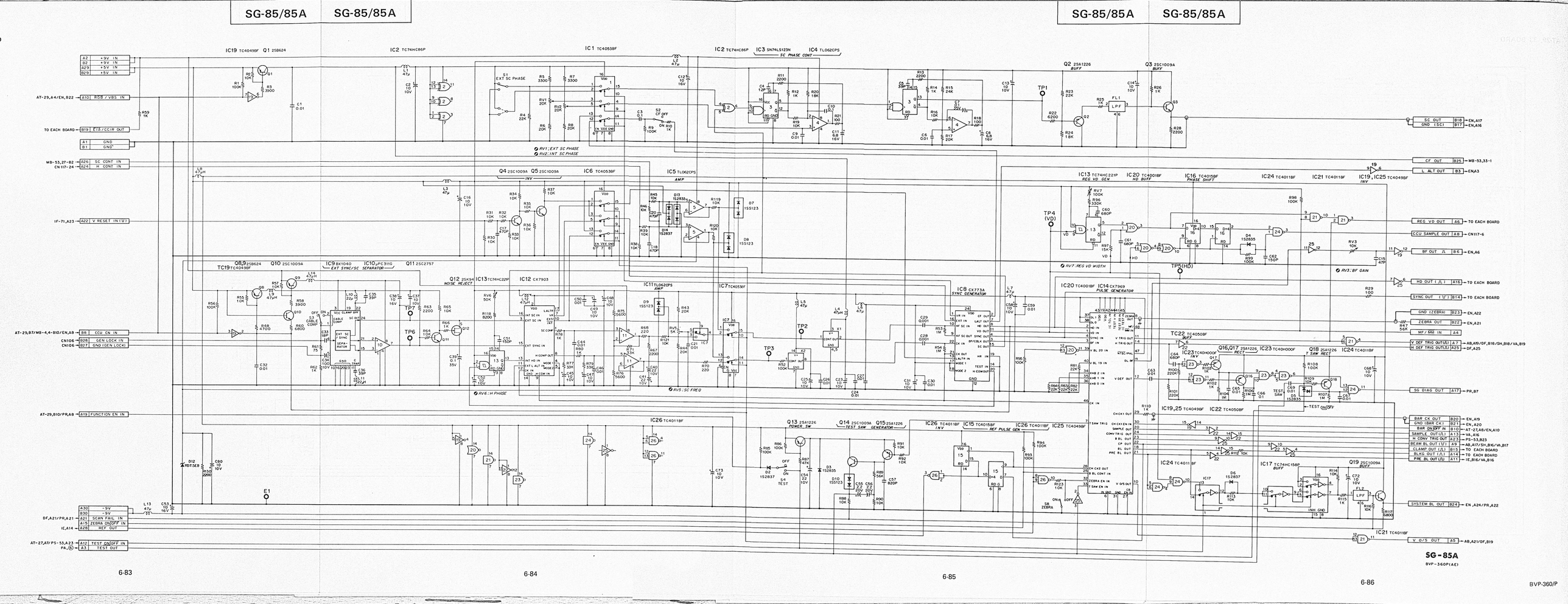


AT-33 BOARD
–SOLDERING SIDE–
1-615-018-11
BVP-360(J,UC)
BVP-360P(AE)

AT-29, 33 AT-29, 33

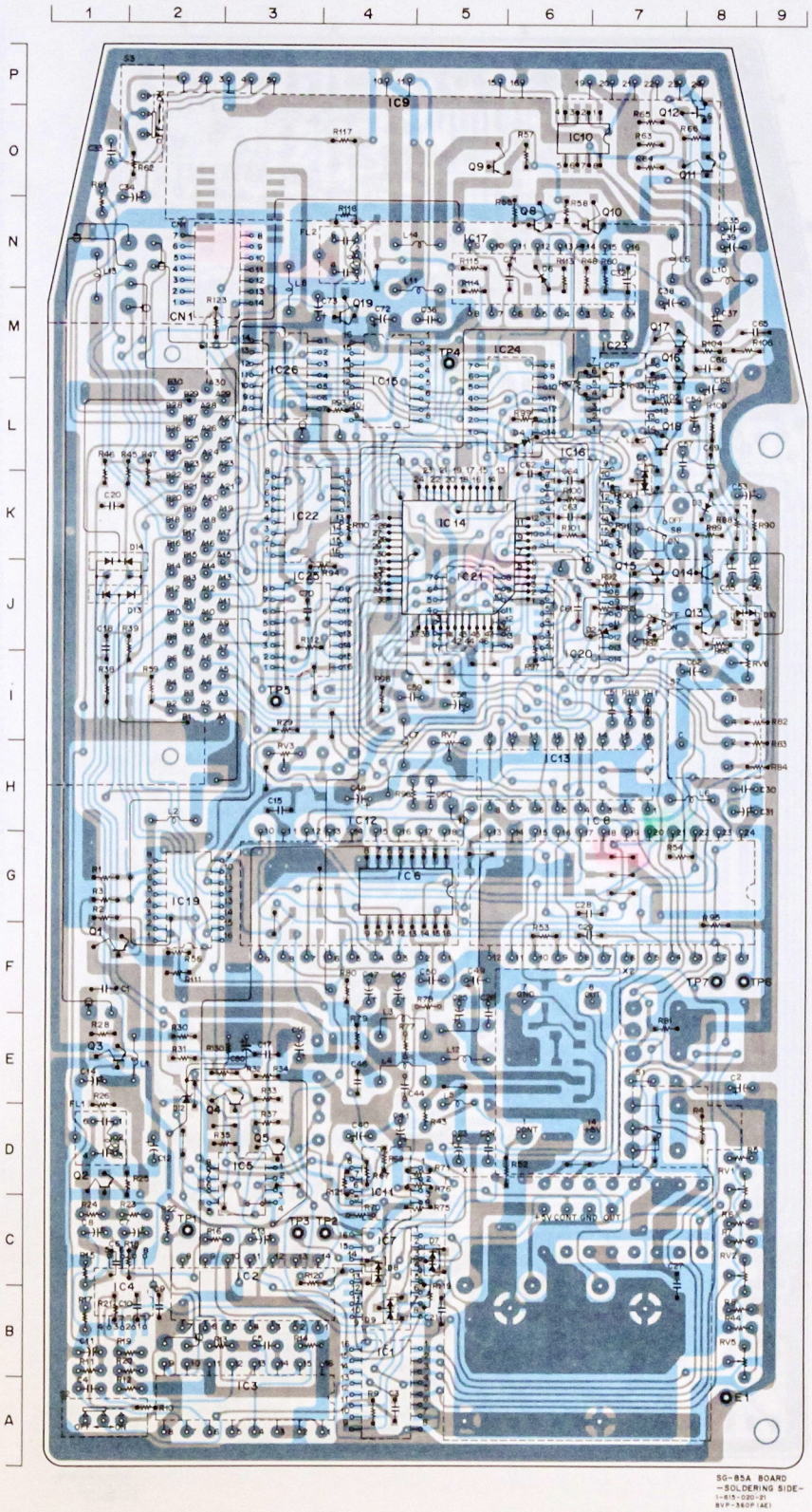
AT-29, 33 BOARD





SG-85/85A SG-85/85A

SG-85/85A BOARD
– SOLDERING SIDE –



CN1 L - 2

D1 H - 3
D2 J - 7
D3 K - 8
D4 L - 6
D5 K - 7
D6 N - 6
D7 C - 5
D8 C - 4
D9 J - 8
D10 B - 4
D12 D - 2
D13 J - 1
D14 J - 1

E1 A - 8

IC1 A - 4
IC2 B - 3
IC3 A - 3
IC4 B - 1
IC5 D - 3
IC6 G - 4
IC7 C - 4
IC8 G - 7
IC9 O - 5
IC10 O - 6
IC11 D - 4
IC12 G - 4
IC13 H - 6
IC14 K - 5
IC15 L - 4
IC16 K - 6
IC17 N - 6
IC18 C - 7
IC19 G - 2
IC20 J - 6
IC21 J - 5
IC22 K - 3
IC23 L - 7
IC24 L - 6
IC25 J - 3
IC26 M - 3

Q1 F - 1
Q2 D - 1
Q3 E - 1
Q4 E - 3
Q5 D - 3
Q8 N - 6
Q9 O - 5
Q10 N - 7
Q11 O - 8
Q12 O - 8
Q13 J - 8
Q14 J - 8
Q15 J - 7
Q16 M - 7
Q17 M - 7
Q18 L - 7
Q19 M - 4

RV1 D - 8
RV2 C - 7
RV3 H - 3
RV4 H - 4
RV5 B - 8
RV6 I - 8
RV7 H - 6

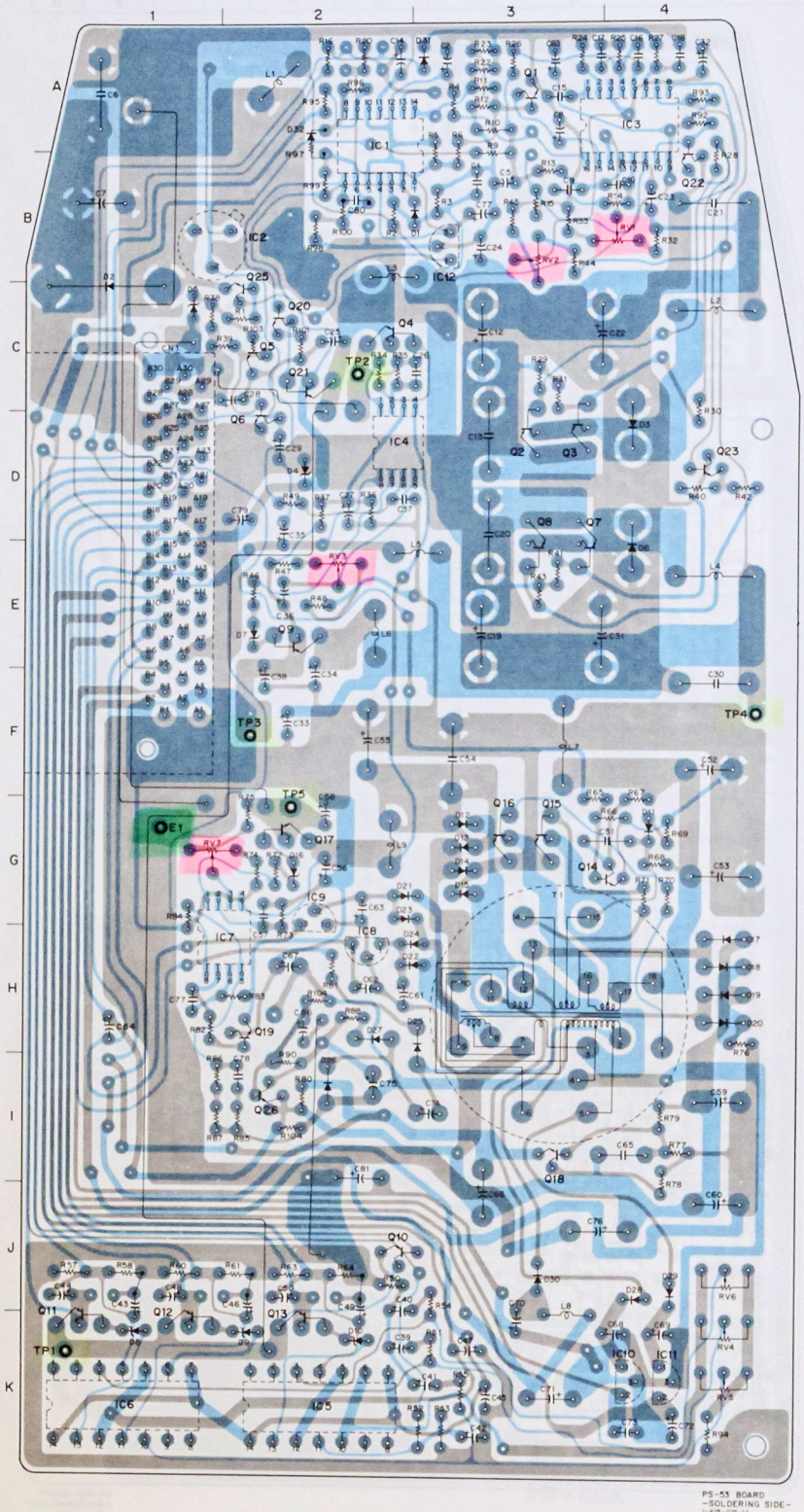
S1 E - 7
S2 A - 1
S3 O - 2
S4 K - 7
S7 I - 7
S8 K - 7

TP1 C - 2
TP2 C - 4
TP3 C - 3
TP4 M - 5
TP5 I - 3
TP6 F - 8
TP7 F - 8

X1 C - 5
X2 F - 7

SG-85A BOARD
– SOLDERING SIDE –
1-615-020-21
BVP-360P (AE)

PS-53 BOARD
– SOLDERING SIDE –



CN1 C-1

D1 B-3
D2 C-1
D4 D-2
D4 D-4
D5 C-1
D6 E-4
D7 E-2
D8 K-1
D9 K-2
D10 K-2
D11 G-4
D12 G-3
D13 G-3
D14 G-3
D15 G-3
D16 G-2
D17 H-4
D18 H-4
D19 H-4
D20 H-4
D21 G-2
D22 H-3
D23 G-2
D24 H-3
D25 H-3
D26 I-2
D27 H-2
D28 J-4
D29 J-4
D30 J-3

E1 G-1

IC1 A-2
IC2 B-1
IC3 A-4
IC4 D-2
IC5 K-2
IC6 K-1
IC7 H-2
IC8 H-2
IC9 G-2
IC10 K-4
IC11 K-4
IC12 B-3

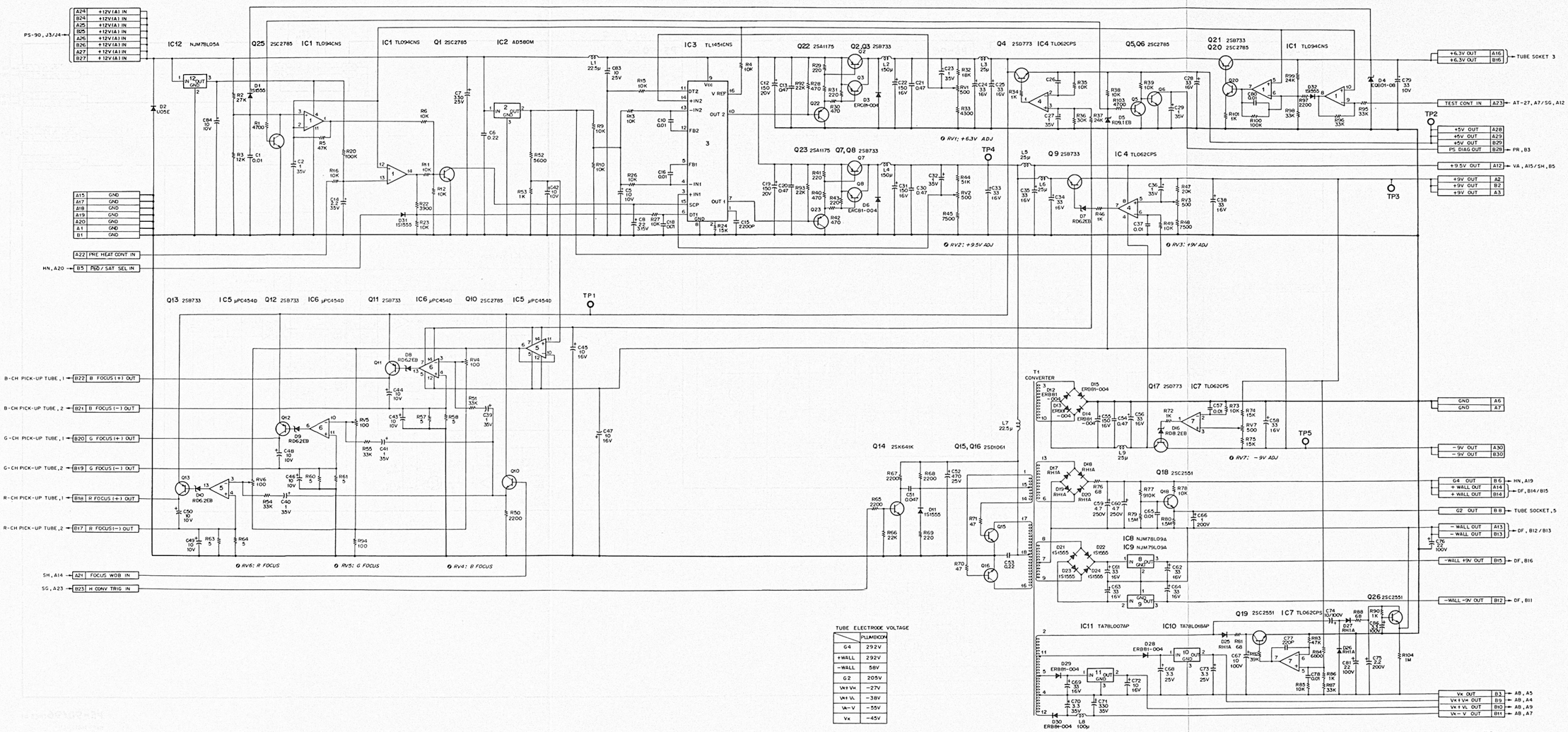
Q1 A-3
Q2 D-3
Q3 D-3
Q4 C-2
Q5 C-2
Q6 D-2
Q7 E-3
Q8 E-3
Q9 E-2
Q10 J-2
Q11 K-1
Q12 K-1
Q13 K-2
Q14 G-4
Q15 G-3
Q16 G-3
Q17 G-2
Q18 I-3
Q19 H-2
Q20 C-2
Q21 C-2
Q22 B-4
Q23 D-4
Q25 C-2

RV1 B-4
RV2 B-3
RV3 E-2
RV4 K-4
RV5 K-4
RV6 J-4
RV7 G-1

TP1 K-1
TP2 C-2
TP3 F-2
TP4 F-4
TP5 G-2

PS-53 BOARD
–SOLDERING SIDE–
1-615-021-11
BVP-360 (J, UC)
BVP-360P/AE)

PS-53 BOARD



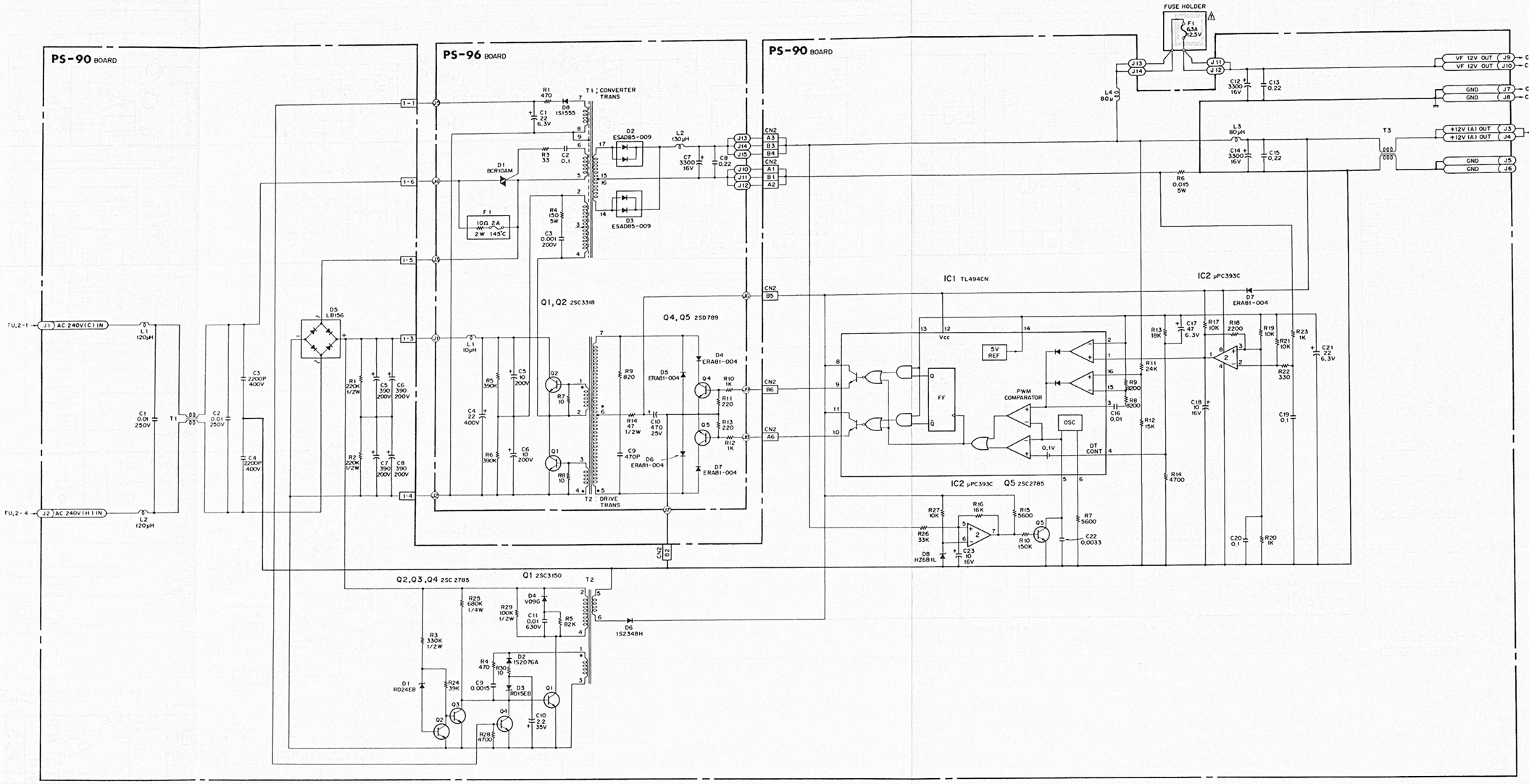
TUBE ELECTRODE VOLTAGE

	PLUMBICON
G4	292V
+WALL	292V
−WALL	58V
G2	205V
Vx + Vx	−27V
Vx + VL	−38V
VA − V	−55V
Vx	−45V

PS-53

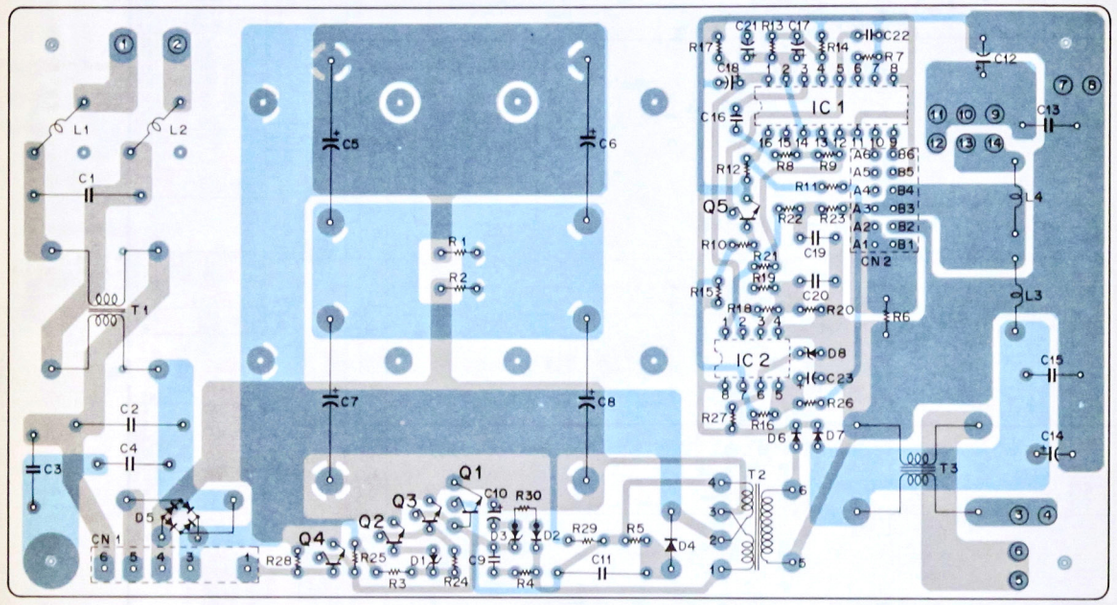
BVP-360 (J,UC)
BVP-360P(AE)

PS-90, 96 (REG-A) SP-90, 96 (REG-A)



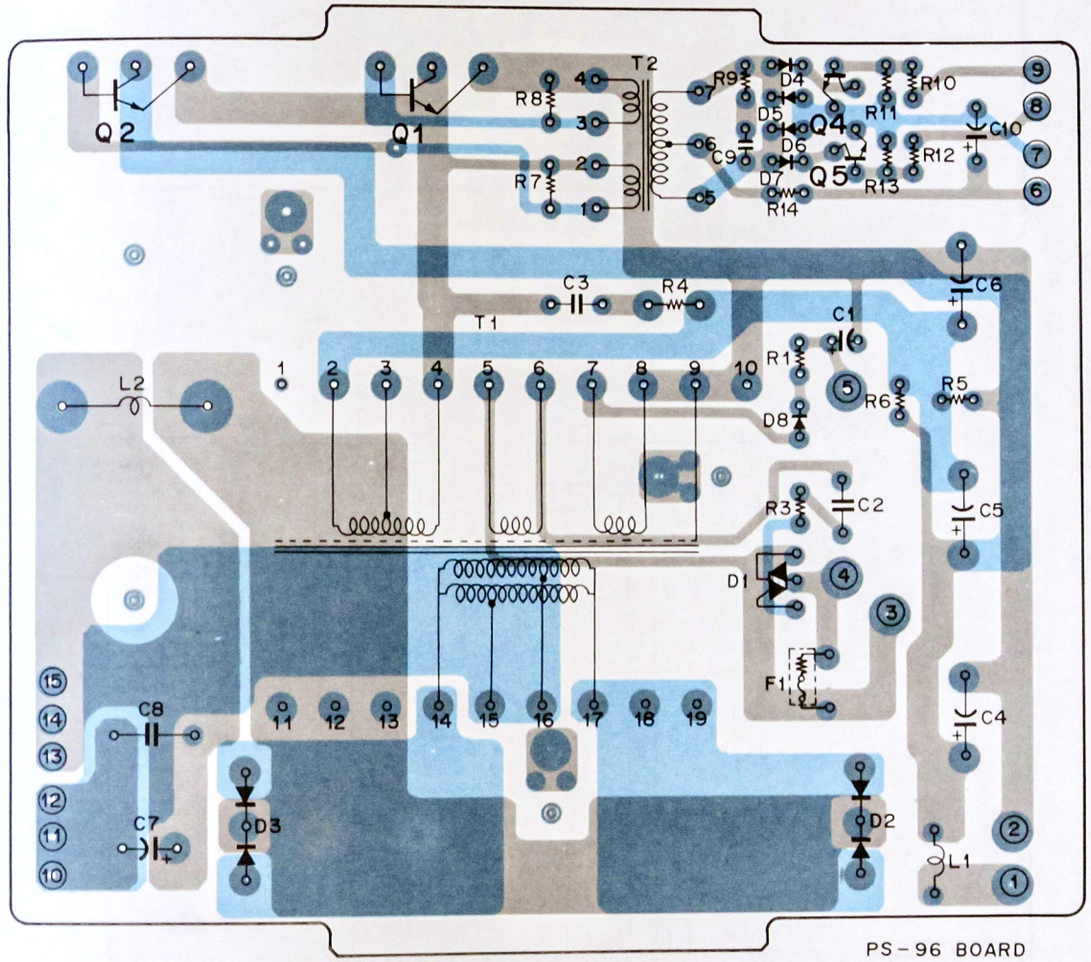
PS-90/96 (REG A)
BVP-360(J,UC)
BVP-360P(AE)

PS-90 BOARD
– SOLDERING SIDE –



PS-90 BOARD
–SOLDERING SIDE–
1-615-030-11
BVP-360(J,UC)
BVP-360P(AE)

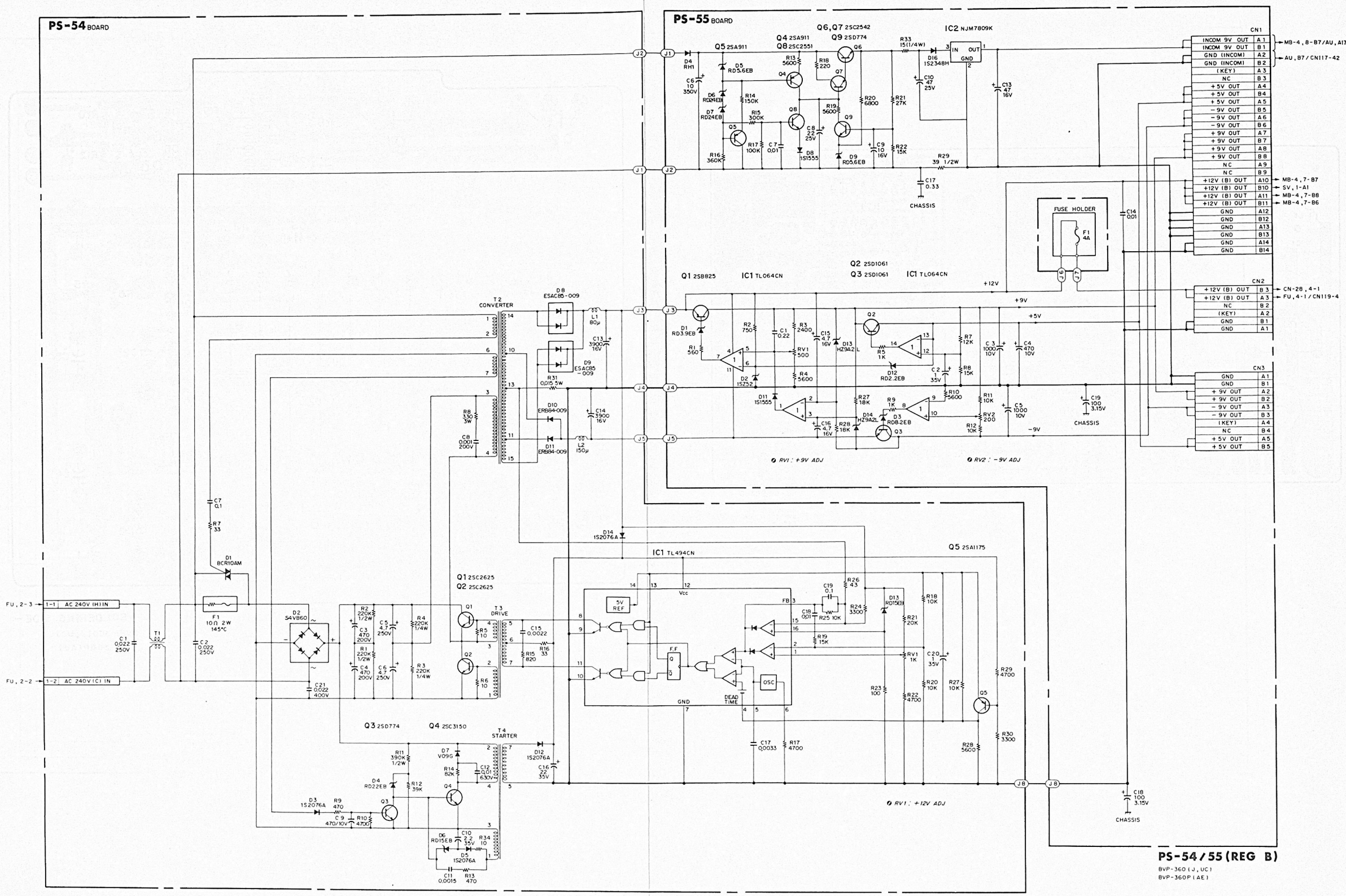
PS-96 BOARD
– SOLDERING SIDE –



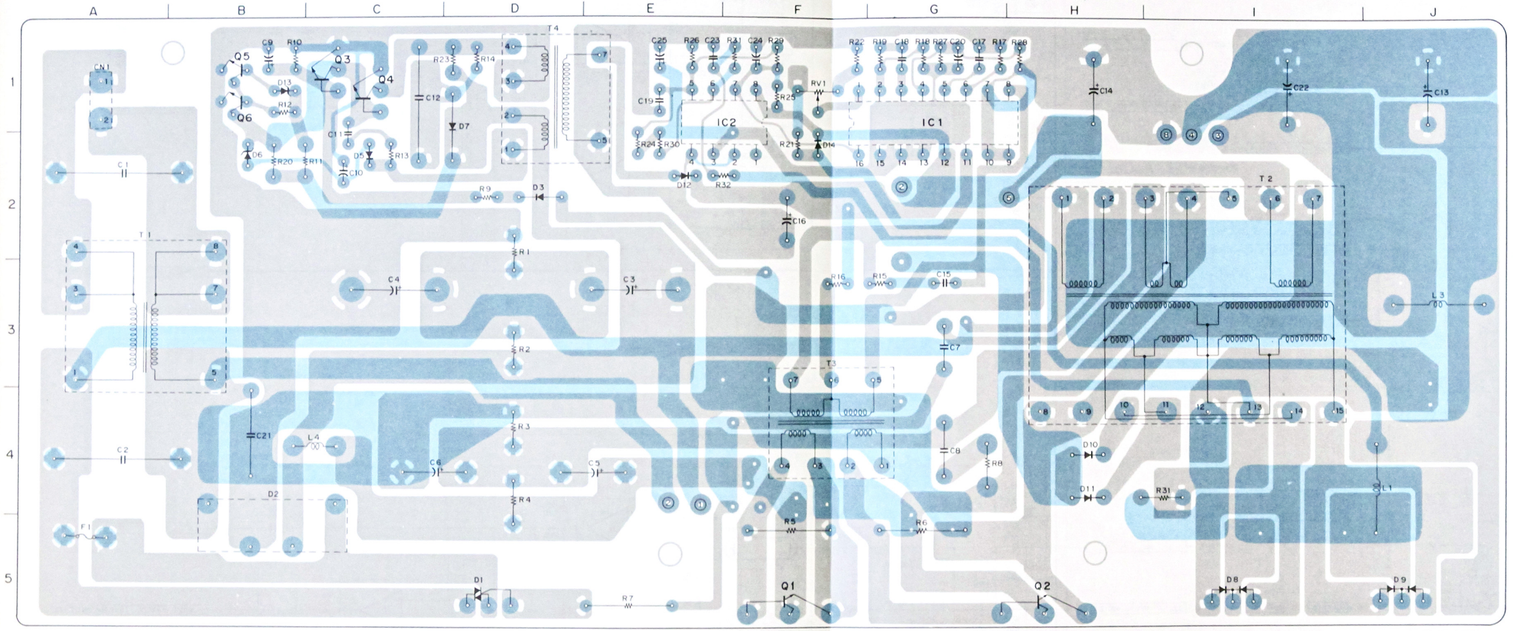
PS-96 BOARD
–SOLDERING SIDE–
BVP-360(J,UC)
BVP-360P(AE)

PS-54, 55 (REG-B)

PS-54, 55 BOARD
(REG B)



PS-54 BOARD
– SOLDERING SIDE –



CN1 A - 1

D1 D - 5
D2 B - 5
D3 D - 2
D5 C - 2
D6 B - 2
D7 D - 1
D8 I - 5
D9 J - 5
D10 H - 4
D11 H - 4
D12 E - 2
D13 B - 1
D14 F - 2

IC1 G - 1
IC2 F - 1

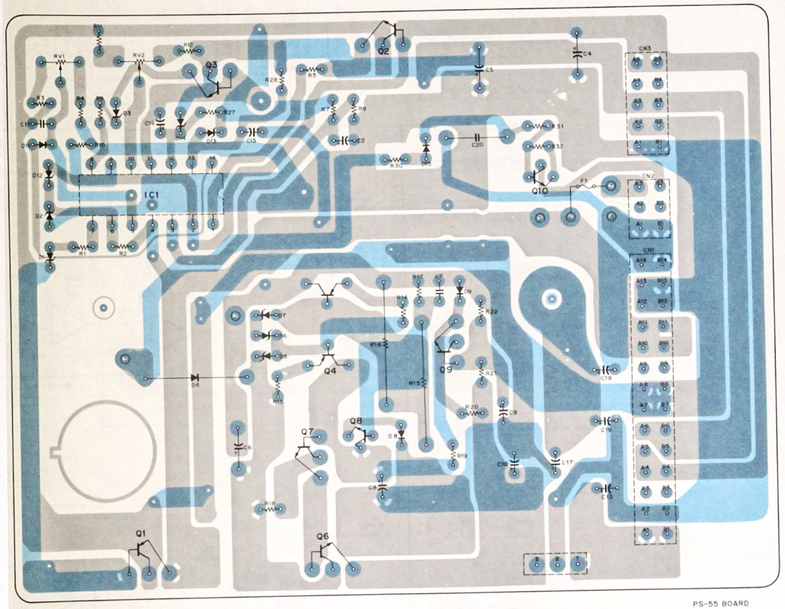
Q1 F - 5
Q2 H - 5
Q3 C - 1
Q4 C - 1
Q5 B - 1
Q6 B - 1

RV1 F - 1

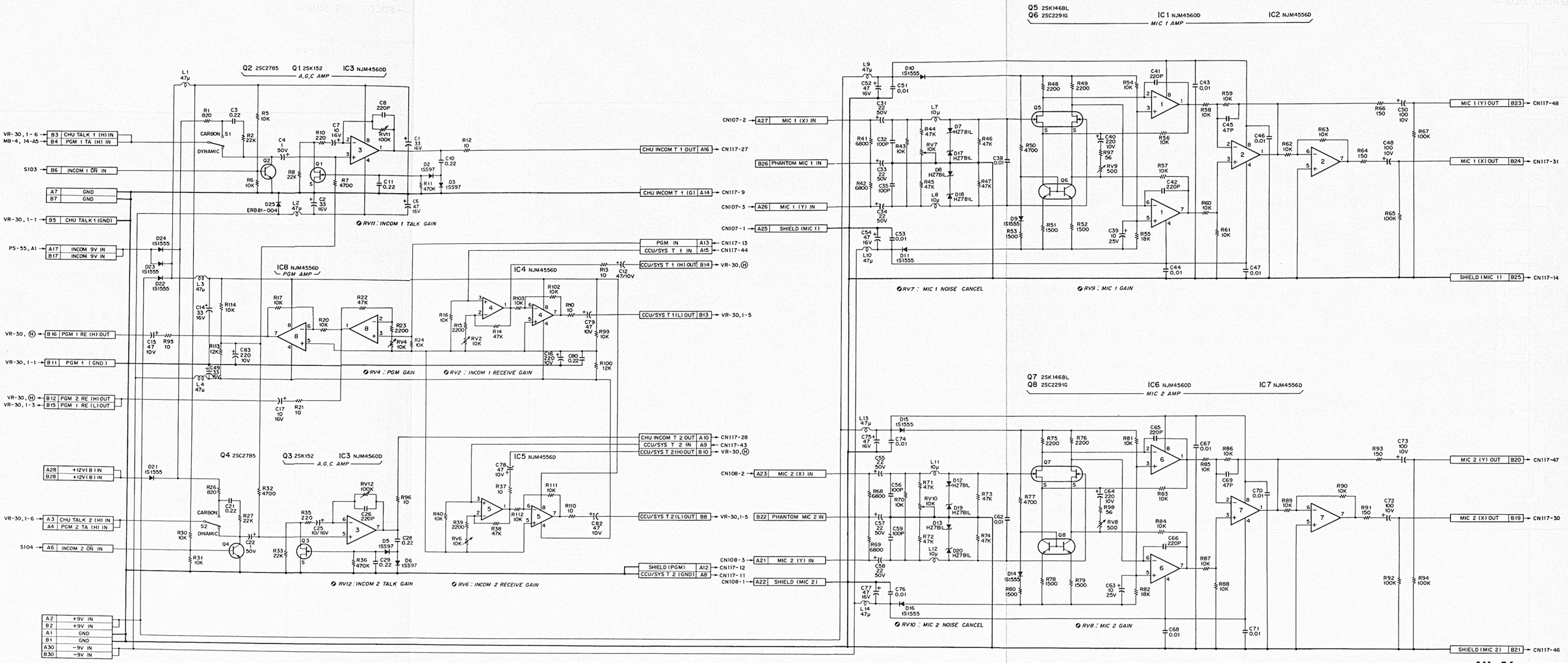
T1 A - 3
T2 I - 3
T3 F - 4
T4 D - 1

PS-54 BOARD
– SOLDERING SIDE –
1-615-032-12
BVP-360 (J,UC)
BVP-360P (AE)

PS-55 BOARD
– SOLDERING SIDE –

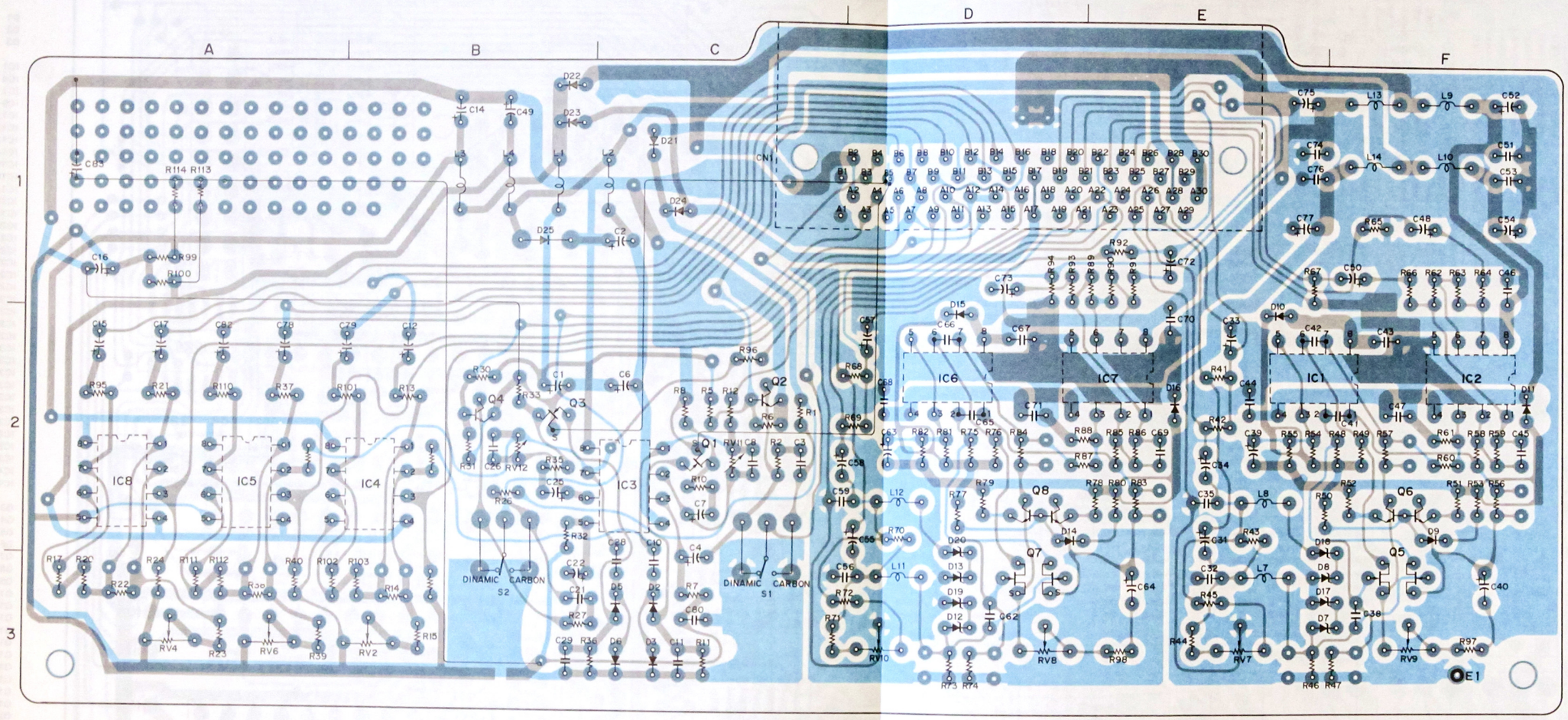


PS-55 BOARD
– SOLDERING SIDE –
1-615-033-12
BVP-360(J,UC)
BVP-360P(EK)



AU-56
BVP-360 (J,UC)
BVP-360P(AE)

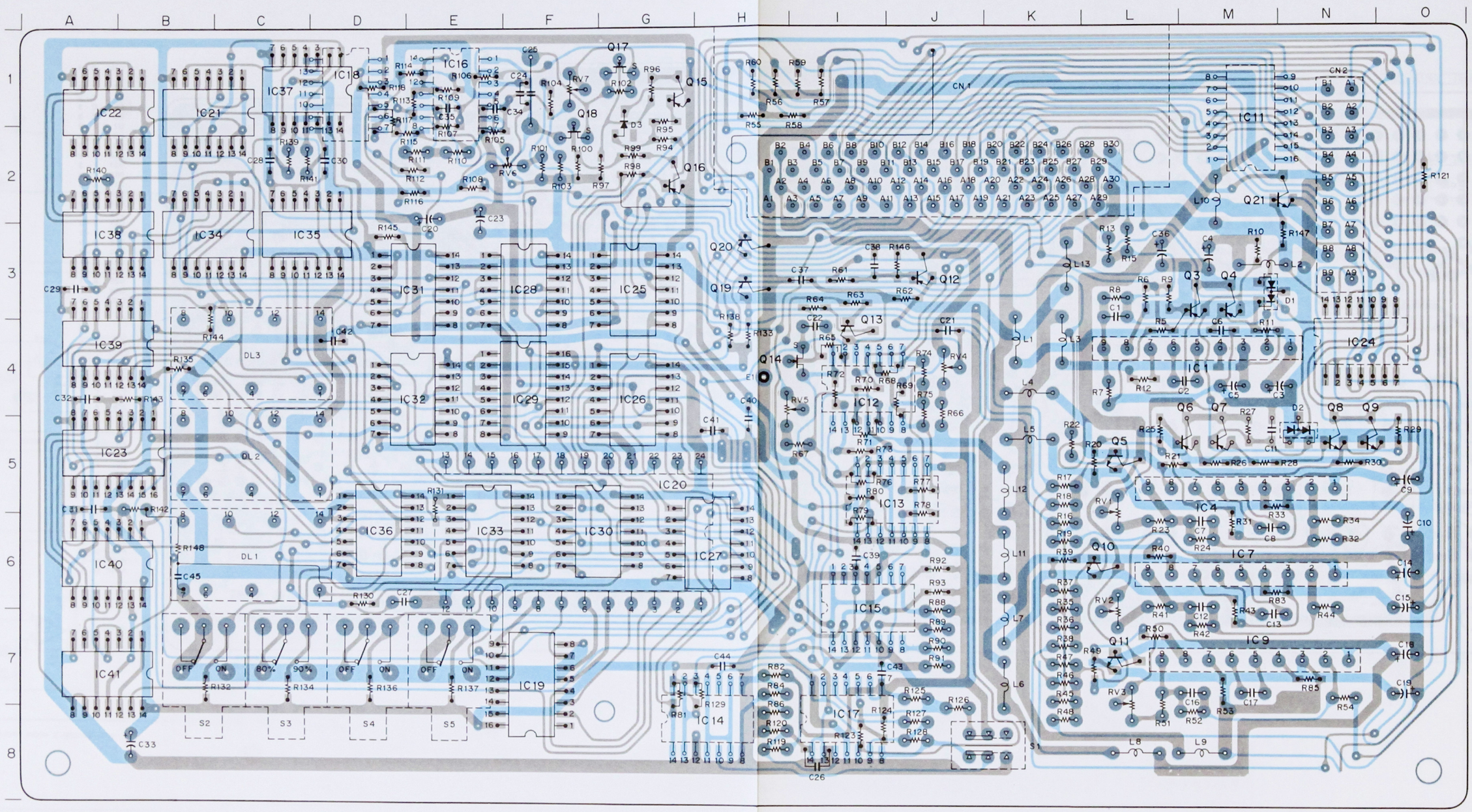
AU-56 BOARD
– SOLDERING SIDE –



CN1	D - 1
D2	C - 3
D3	C - 3
D5	C - 3
D6	C - 3
D7	E - 3
D8	E - 3
D9	F - 2
D10	E - 2
D11	F - 2
D12	D - 3
D13	D - 3
D14	D - 2
D15	D - 2
D16	E - 2
D17	E - 3
D18	E - 2
D19	D - 3
D20	D - 2
D21	C - 1
D22	B - 1
D23	B - 1
D24	C - 1
D25	B - 1
E1	F - 3
IC1	E - 2
IC2	F - 2
IC3	C - 2
IC4	B - 2
IC5	A - 2
IC6	D - 2
IC7	E - 2
IC8	A - 2
Q1	C - 2
Q2	C - 2
Q3	B - 2
Q4	B - 2
Q5	F - 3
Q6	F - 2
Q7	D - 3
Q8	D - 2
RV2	B - 3
RV4	A - 3
RV6	A - 3
RV7	E - 3
RV8	D - 3
RV9	F - 3
RV10	D - 3
S1	C - 3
S2	B - 3

AU-56 BOARD
-SOLDERING SIDE-
1-615-026-11
BVP-360(UC,J)
BVP-360P(AE)

IF-39 BOARD
– SOLDERING SIDE –

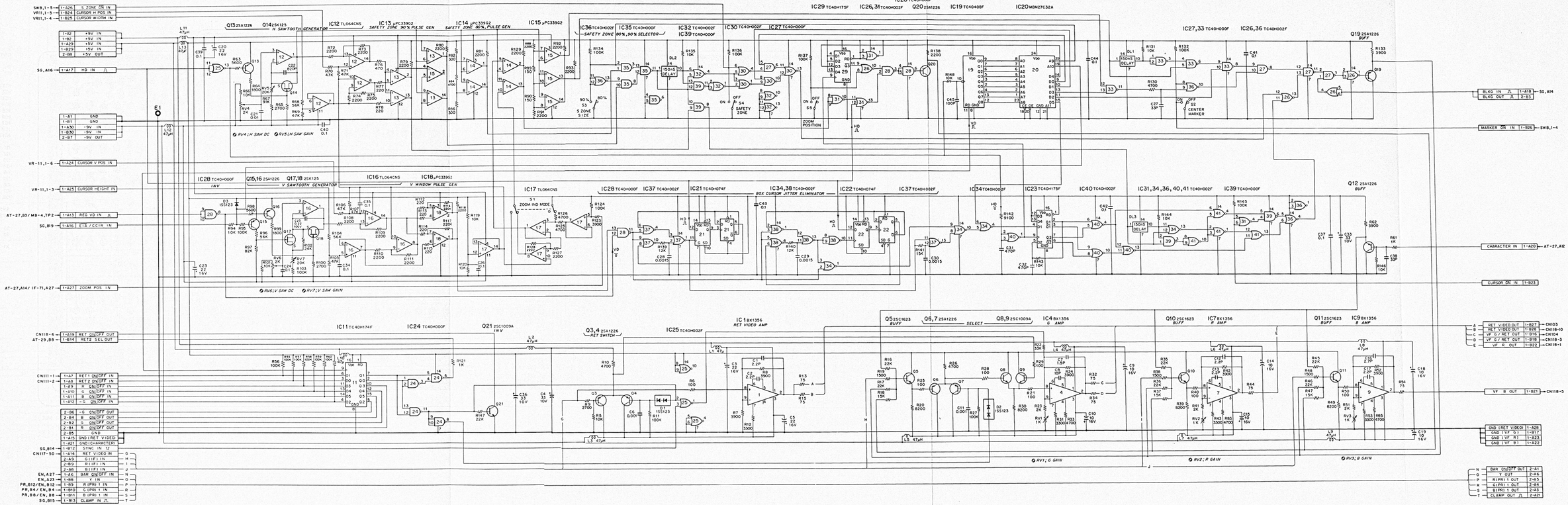


IF-39 BOARD
–SOLDERING SIDE–
1-615-022-11
BVP-360 (J,UC)
BVP-360P(AE)

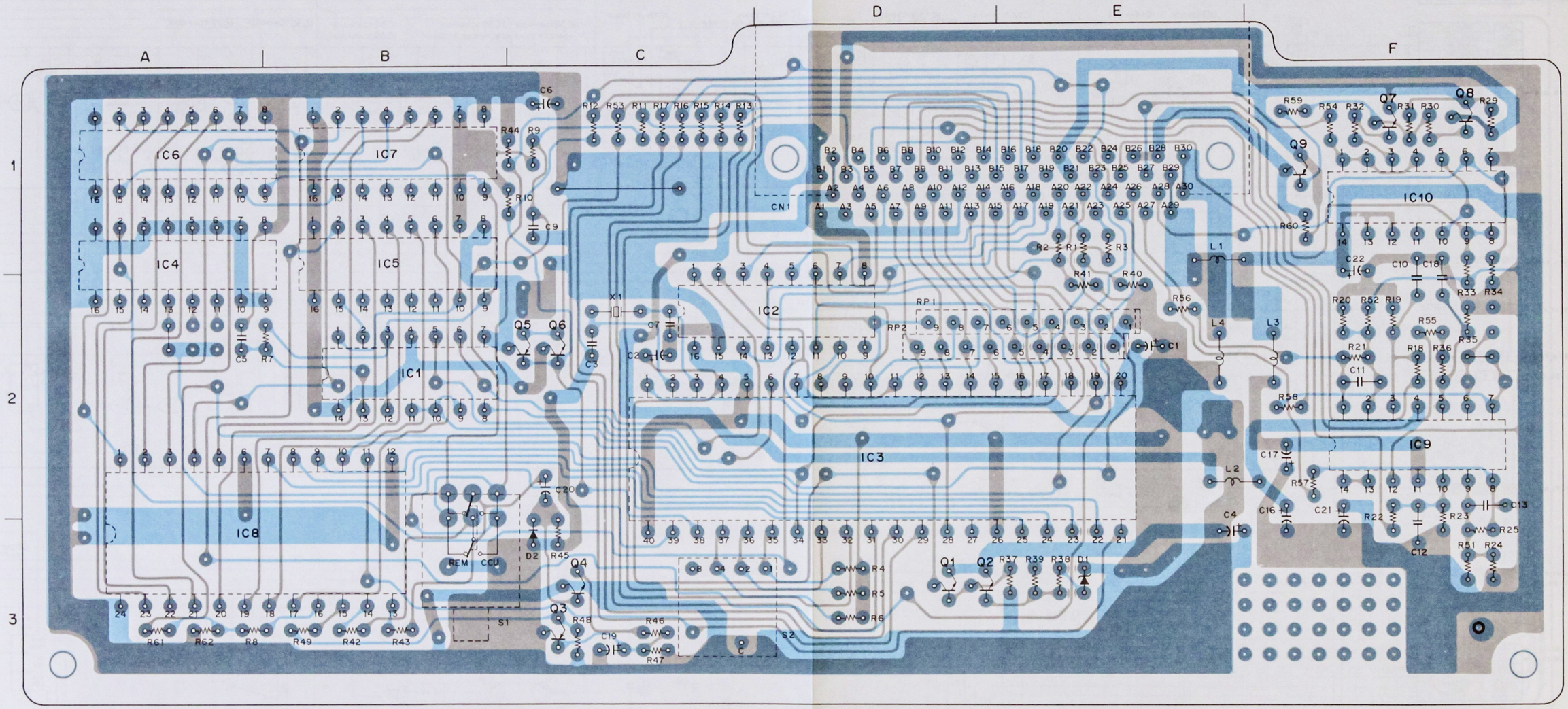
CN1	J - 2
CN2	N - 2
D1	M - 3
D2	N - 5
D3	G - 1
IC1	M - 4
IC4	M - 5
IC7	M - 6
IC9	M - 7
IC11	M - 1
IC12	I - 4
IC13	J - 5
IC14	H - 8
IC15	I - 6
IC16	E - 1
IC17	I - 8
IC18	D - 1
IC19	F - 7
IC20	G - 6
IC21	B - 1
IC22	A - 1
IC23	A - 5
IC24	N - 4
IC25	G - 3
IC26	G - 4
IC27	H - 6
IC28	F - 3
IC29	F - 4
IC30	G - 6
IC31	E - 3
IC32	E - 4
IC33	E - 6
IC34	B - 3
IC35	C - 3
IC36	D - 6
IC37	C - 1
IC38	A - 3
IC39	A - 4
IC40	A - 6
IC41	A - 7
Q3	M - 3
Q4	M - 3
Q5	L - 5
Q6	M - 5
Q7	M - 5
Q8	N - 5
Q9	N - 5
Q10	L - 6
Q11	L - 7
Q12	J - 3
Q13	I - 4
Q14	I - 4
Q15	G - 1
Q16	G - 2
Q17	G - 1
Q18	F - 2
Q19	H - 3
Q20	H - 3
Q21	N - 2
S1	K - 8
S2	B - 7
S3	C - 7
S4	D - 7
S5	E - 7

IF-39 IF-39

IF-39 BOARD



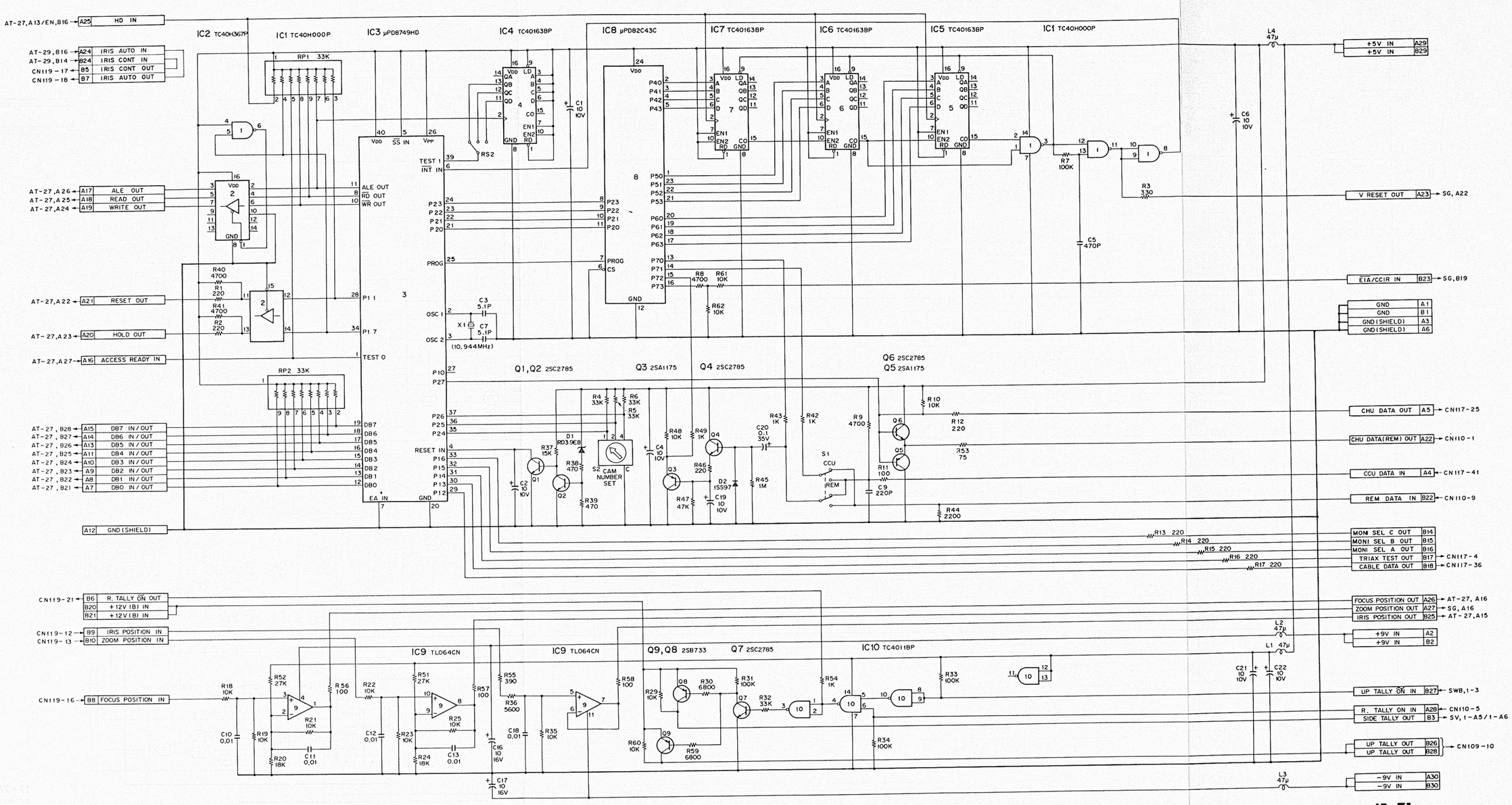
IF-71 BOARD
– SOLDERING SIDE –

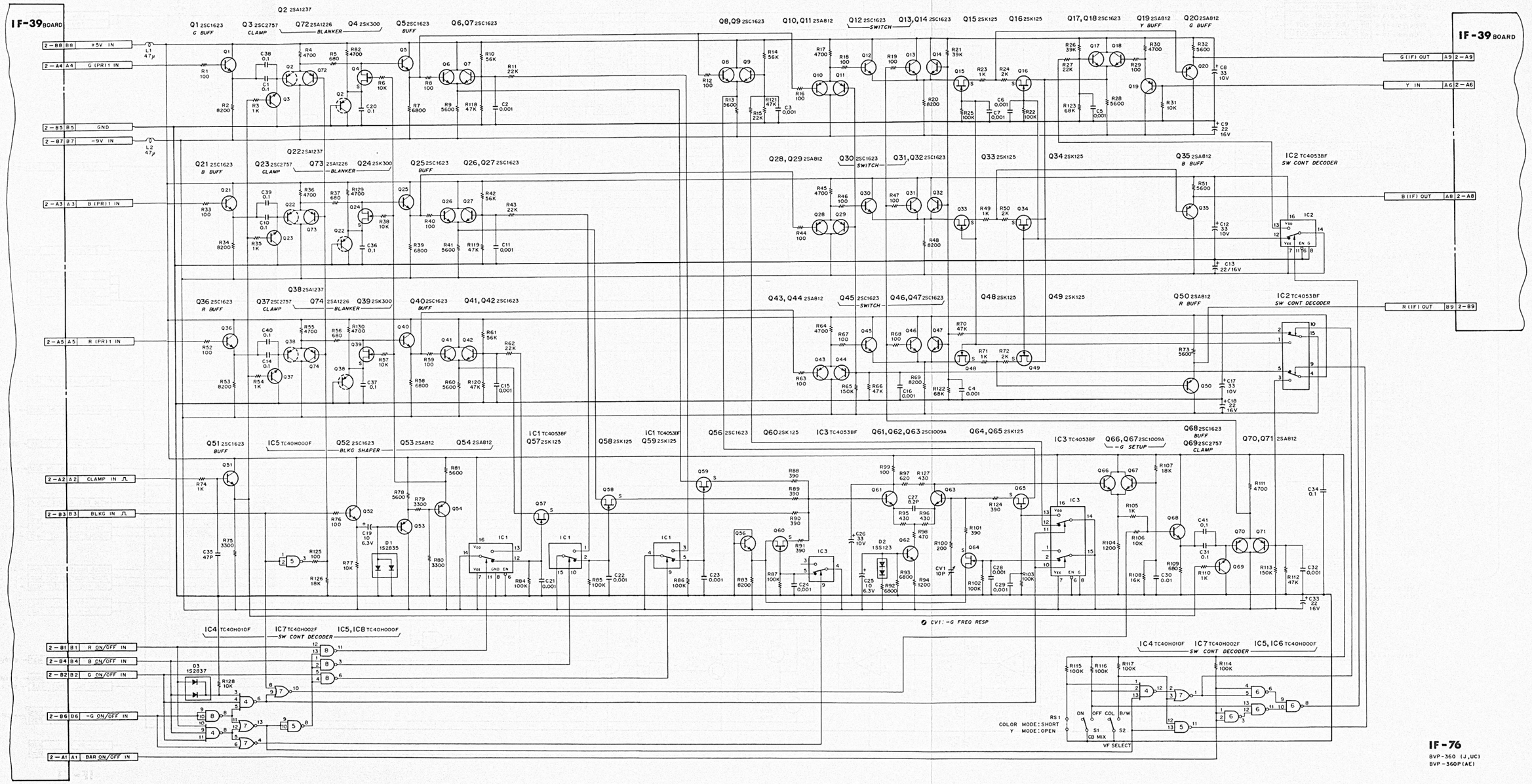


CN1	D - 1
D1	E - 3
D2	C - 3
IC1	B - 2
IC2	D - 2
IC3	D - 2
IC4	A - 1
IC5	B - 1
IC6	A - 1
IC7	B - 1
IC8	A - 3
IC10	F - 1
Q1	D - 3
Q2	D - 3
Q3	C - 3
Q4	C - 3
Q5	C - 2
Q6	C - 2
Q6	F - 1
Q7	F - 1
Q8	F - 1
RP1	E - 2
RP2	E - 2
S1	B - 3
S2	C - 3
X1	C - 2

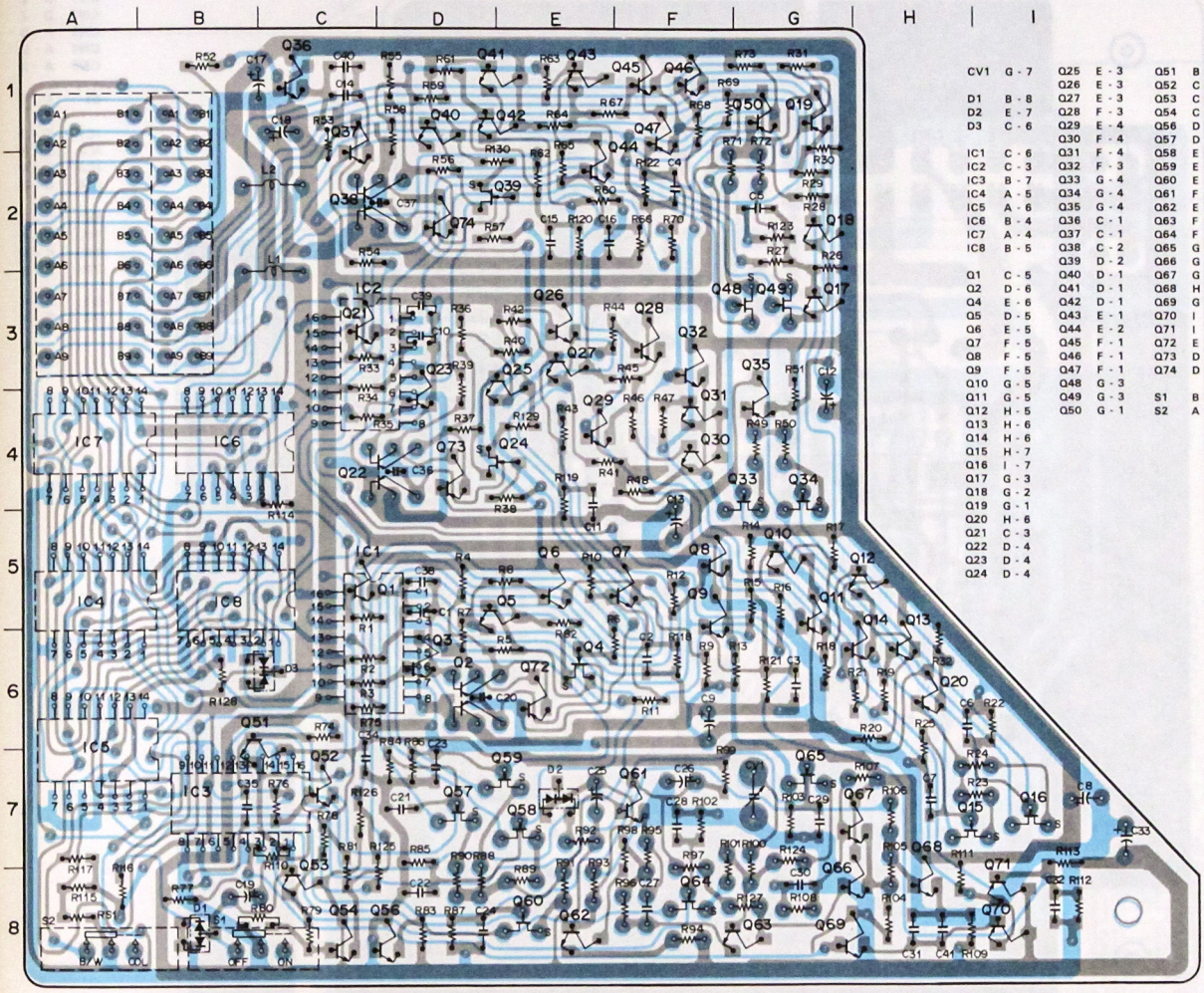
IF-71 BOARD
– SOLDERING SIDE –
1-615-025-11
BVP-360 (J,UC)
BVP-360P(AE)

IF-71 BOARD


IC2 TC40H367P
IC1 TC40H000P
IC3 μPD8749HD
IC4 TC40163BP
IC8 μPD82C43C
IC7 TC40163BP
IC6 TC40163BP
IC5 TC40163BP
IC1 TC40H000P
Q1,Q2 2SC2785
Q3 2SA1175
Q4 2SC2785
Q6 2SC2785
Q5 2SA1175
IC9 TL064CN
IC9 TL064CN
Q9,Q8 2SB733
Q7 2SC2785
IC10 TC4011BP
(10.944MHz)
S2 CAM NUMBER SET
S1 CCU REM
AT-27,A13/EN,B16 A25 HD IN
AT-29,B16 A24 IRIS AUTO IN
AT-29,B14 B24 IRIS CONT IN
CN119-17 B5 IRIS CONT OUT
CN119-18 B7 IRIS AUTO OUT
AT-27,A26 A17 ALE OUT
AT-27,A25 A18 READ OUT
AT-27,A24 A19 WRITE OUT
AT-27,A22 A21 RESET OUT
AT-27,A23 A20 HOLD OUT
AT-27,A27 A16 ACCESS READY IN
AT-27,B28 A15 DB7 IN/OUT
AT-27,B27 A14 DB6 IN/OUT
AT-27,B26 A13 DB5 IN/OUT
AT-27,B25 A11 DB4 IN/OUT
AT-27,B24 A10 DB3 IN/OUT
AT-27,B23 A9 DB2 IN/OUT
AT-27,B22 A8 DB1 IN/OUT
AT-27,B21 A7 DB0 IN/OUT
A12 GND(SHIELD)
CN119-21 B6 R. TALLY ON OUT
B20 +12V(B) IN
B21 +12V(B) IN
CN119-12 B9 IRIS POSITION IN
CN119-13 B10 ZOOM POSITION IN
CN119-16 B8 FOCUS POSITION IN
+5V IN A29
+5V IN B29
V RESET OUT A23 → SG, A22
EIA/CCIR IN B23 → SG, B19
GND A1
GND B1
GND(SHIELD) A3
GND(SHIELD) A6
CHU DATA OUT A5 → CN117-25
CHU DATA(REM) OUT A22 → CN110-1
CCU DATA IN A4 ← CN117-41
REM DATA IN B22 ← CN110-9
MONI SEL C OUT B14
MONI SEL B OUT B15
MONI SEL A OUT B16
TRIAX TEST OUT B17 → CN117-4
CABLE DATA OUT B18 → CN117-36
FOCUS POSITION OUT A26 → AT-27, A16
ZOOM POSITION OUT A27 → SG, A16
IRIS POSITION OUT B25 → AT-27, A15
+9V IN A2
+9V IN B2
UP TALLY ON IN B27 → SW8, 1-3
R. TALLY ON IN A28 ← CN110-5
SIDE TALLY OUT B3 → 5V, 1-A5/1-A6
UP TALLY OUT B26
UP TALLY OUT B28 → CN109-10
-9V IN A30
-9V IN B30
IF-71
BVP-360 (J, UC)
BVP-360P (AE)


IF-39 BOARD
2-B8 B8 +5V IN
2-A4 A4 G (PR)1 IN
2-B5 B5 GND
2-B7 B7 -9V IN
2-A3 A3 B (PR)1 IN
2-A5 A5 R (PR)1 IN
2-A2 A2 CLAMP IN
2-B3 B3 BLKG IN
2-B1 B1 R ON/OFF IN
2-B4 B4 B ON/OFF IN
2-B2 B2 G ON/OFF IN
2-B6 B6 -G ON/OFF IN
2-A1 A1 BAR ON/OFF IN
Q1 2SC1623 G BUFF
Q3 2SC2757 CLAMP
Q72 2SA1226 BLANKER
Q4 2SK300
Q5 2SC1623 BUFF
Q6,Q7 2SC1623
Q8,Q9 2SC1623
Q10,Q11 2SA812
Q12 2SC1623 SWITCH
Q13,Q14 2SC1623
Q15 2SK125
Q16 2SK125
Q17,Q18 2SC1623
Q19 2SA812 Y BUFF
Q20 2SA812 G BUFF
G (IF) OUT A9 2-A9
Y IN A6 2-A6
B (IF) OUT A8 2-A8
R (IF) OUT B9 2-B9
IC2 TC4053BF SW CONT DECODER
Q21 2SC1623 B BUFF
Q23 2SC2757 CLAMP
Q73 2SA1226 BLANKER
Q24 2SK300
Q25 2SC1623 BUFF
Q26,Q27 2SC1623
Q28,Q29 2SA812
Q30 2SC1623 SWITCH
Q31,Q32 2SC1623
Q33 2SK125
Q34 2SK125
Q35 2SA812 B BUFF
Q36 2SC1623 R BUFF
Q37 2SC2757 CLAMP
Q74 2SA1226 BLANKER
Q39 2SK300
Q40 2SC1623 BUFF
Q41,Q42 2SC1623
Q43,Q44 2SA812
Q45 2SC1623 SWITCH
Q46,Q47 2SC1623
Q48 2SK125
Q49 2SK125
Q50 2SA812 R BUFF
Q51 2SC1623 BUFF
IC5 TC40H000F
Q52 2SC1623 BLKG SHAPER
Q53 2SA812
Q54 2SA812
IC1 TC4053BF
Q57 2SK125
Q58 2SK125
IC1 TC4053BF
Q59 2SK125
Q56 2SC1623
Q60 2SK125
IC3 TC4053BF
Q61,Q62,Q63 2SC1009A
Q64,Q65 2SK125
IC3 TC4053BF
Q66,Q67 2SC1009A -G SETUP
Q68 2SC1623 BUFF
Q69 2SC2757 CLAMP
Q70,Q71 2SA812
IC4 TC40H010F
IC7 TC40H002F SW CONT DECODER
IC5,IC8 TC40H000F
IC4 TC40H010F
IC7 TC40H002F SW CONT DECODER
IC5,IC6 TC40H000F
CV1: -G FREQ RESP
RS1 COLOR MODE: SHORT Y MODE: OPEN
ON OFF COL B/W
S1 CB MIX
S2 VF SELECT
IF-76
BVP-360 (J,UC)
BVP-360P(AE)
IF-39 BOARD

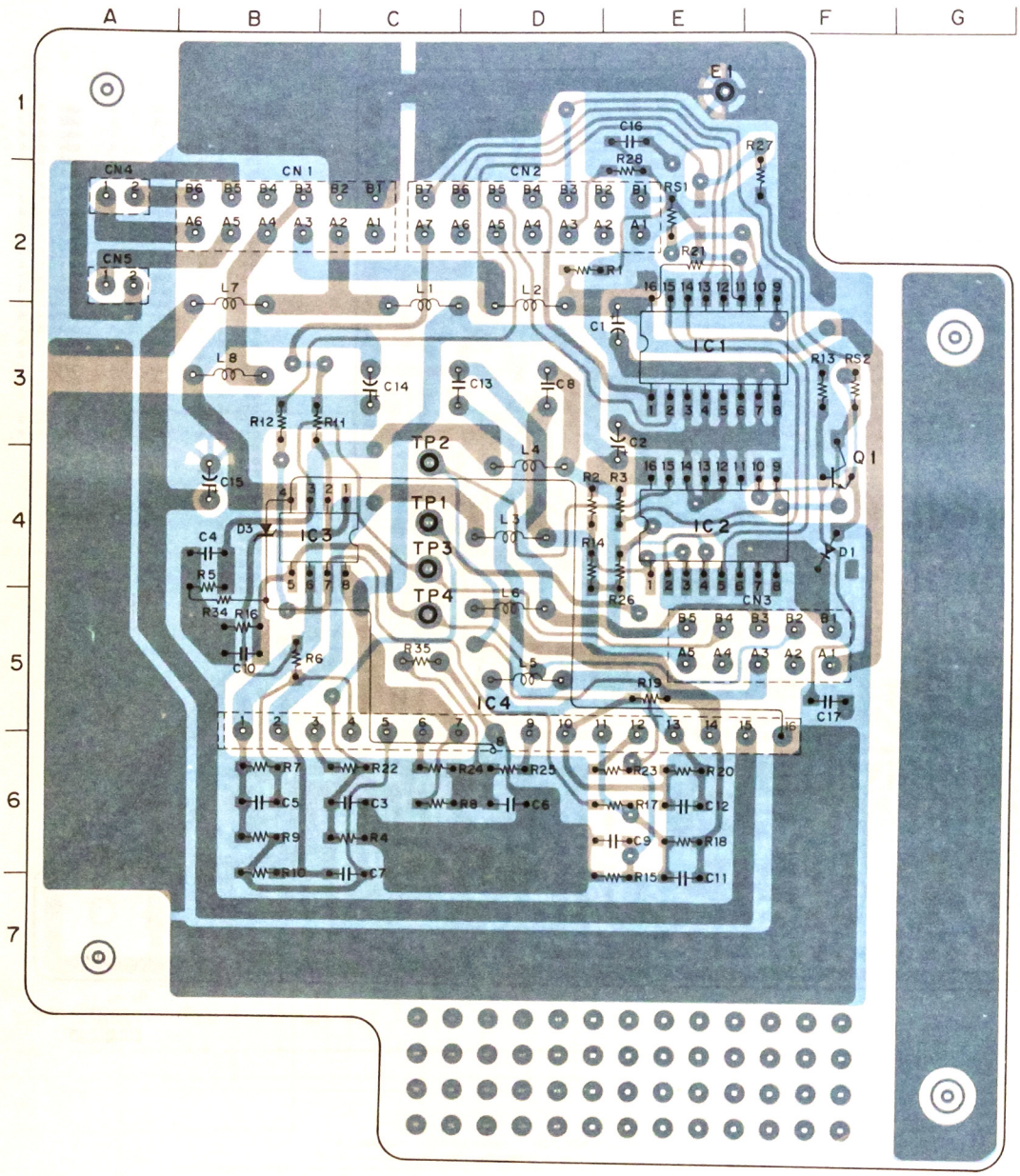
IF-76 BOARD
– SOLDERING SIDE –



CV1	G - 7	Q25	E - 3	Q51	B - 6		
		Q26	E - 3	Q52	C - 7		
D1	B - 8	Q27	E - 3	Q53	C - 8		
D2	E - 7	Q28	F - 3	Q54	C - 8		
D3	C - 6	Q29	E - 4	Q56	D - 8		
		Q30	F - 4	Q57	D - 7		
IC1	C - 6	Q31	F - 4	Q58	E - 7		
IC2	C - 3	Q32	F - 3	Q59	E - 7		
IC3	B - 7	Q33	G - 4	Q60	E - 8		
IC4	A - 5	Q34	G - 4	Q61	F - 7		
IC5	A - 6	Q35	G - 4	Q62	E - 8		
IC6	B - 4	Q36	C - 1	Q63	F - 8		
IC7	A - 4	Q37	C - 1	Q64	F - 8		
IC8	B - 5	Q38	C - 2	Q65	G - 7		
		Q39	D - 2	Q66	G - 8		
Q1	C - 5	Q40	D - 1	Q67	G - 7		
Q2	D - 6	Q41	D - 1	Q68	H - 8		
Q4	E - 6	Q42	D - 1	Q69	G - 8		
Q5	D - 5	Q43	E - 1	Q70	I - 8		
Q6	E - 5	Q44	E - 2	Q71	I - 8		
Q7	F - 5	Q45	F - 1	Q72	E - 6		
Q8	F - 5	Q46	F - 1	Q73	D - 4		
Q9	F - 5	Q47	F - 1	Q74	D - 2		
Q10	G - 5	Q48	G - 3				
Q11	G - 5	Q49	G - 3	S1	B - 8		
Q12	H - 5	Q50	G - 1	S2	A - 8		
Q13	H - 6						
Q14	H - 6						
Q15	H - 7						
Q16	I - 7						
Q17	G - 3						
Q18	G - 2						
Q19	G - 1						
Q20	H - 6						
Q21	C - 3						
Q22	D - 4						
Q23	D - 4						
Q24	D - 4						

IF-76
–SOLDERING SIDE–
1-615-023-11
BVP-360 (J,UC)
BVP-360P(AE)

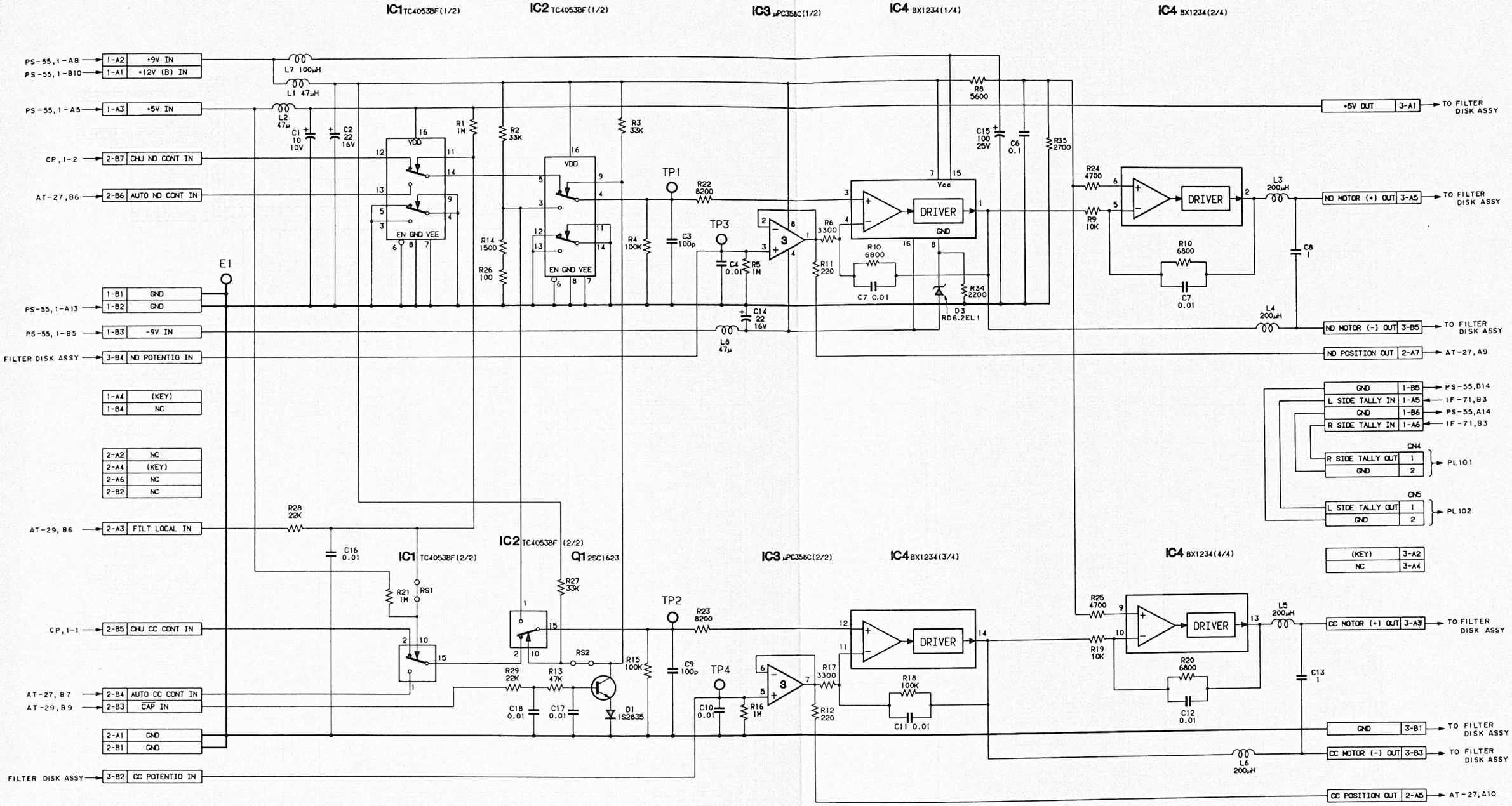
SV-56 BOARD
– SOLDERING SIDE –



CN1	B - 2
CN2	D - 2
CN3	F - 5
CN4	A - 2
CN5	A - 2
E1	E - 1
IC1	E - 3
IC2	E - 4
IC3	C - 4
IC4	D - 2
TP1	C - 4
TP2	C - 4
TP3	C - 4
TP4	C - 5
D1	B - 4
D3	B - 4

SV-56 BOARD
– SOLDERING SIDE –
1-615-029-11
BVP-360 (J,UC)
BVP-360P (AE)

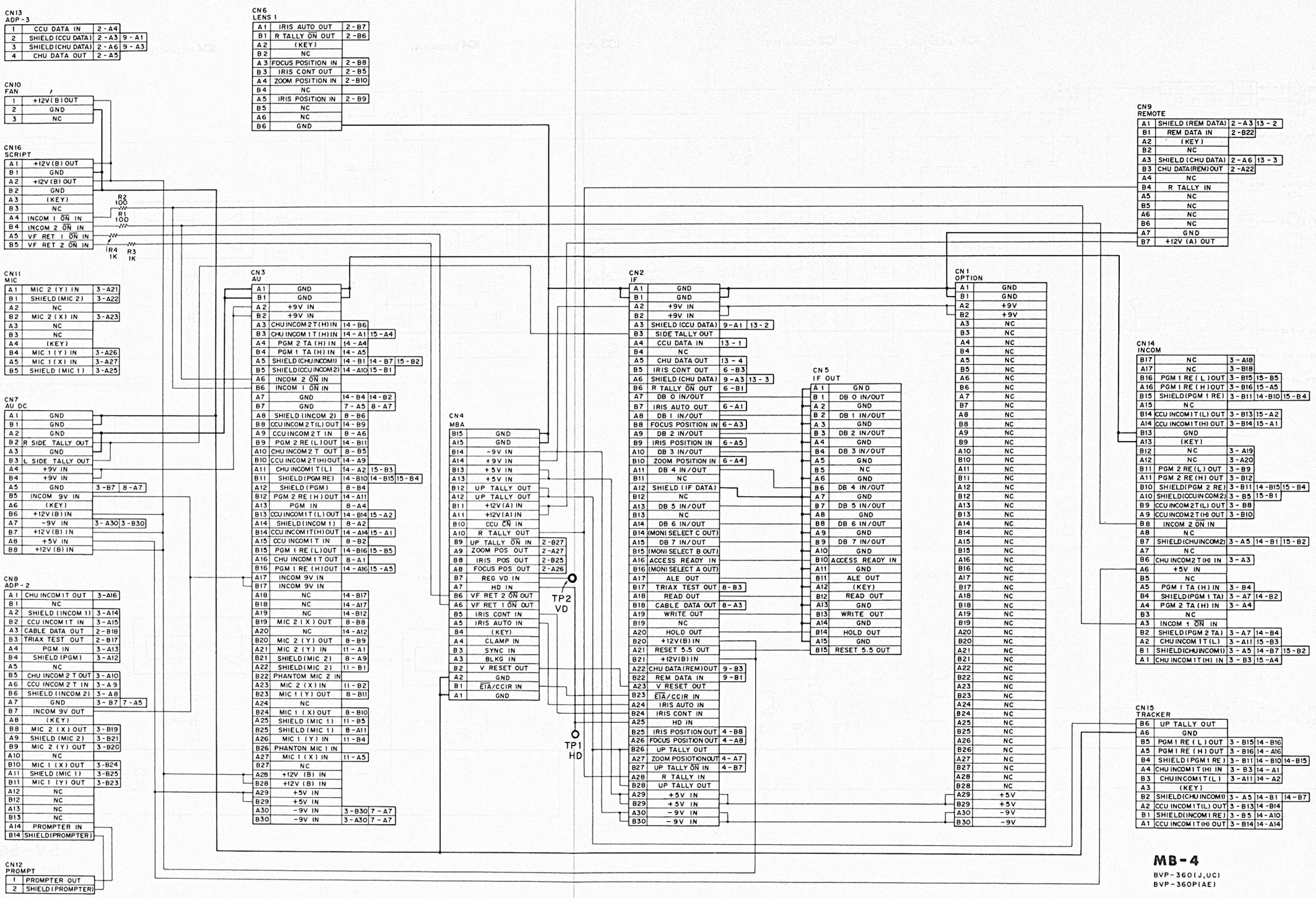
SV-56 BOARD



SV-56

BVP-360(UC1,J1)
BVP-360P(AE)

MB-4 BOARD


CN13 ADP-3
1 CCU DATA IN 2-A4
2 SHIELD (CCU DATA) 2-A3 9-A1
3 SHIELD (CHU DATA) 2-A6 9-A3
4 CHU DATA OUT 2-A5
CN10 FAN
1 +12V(B) OUT
2 GND
3 NC
CN16 SCRIPT
A1 +12V(B) OUT
B1 GND
A2 +12V(B) OUT
B2 GND
A3 (KEY)
B3 NC
A4 INCOM 1 ON IN
B4 INCOM 2 ON IN
A5 VF RET 1 ON IN
B5 VF RET 2 ON IN
R2 100
R1 100
R4 1K
R3 1K
CN11 MIC
A1 MIC 2 (Y) IN 3-A21
B1 SHIELD (MIC 2) 3-A22
A2 NC
B2 MIC 2 (X) IN 3-A23
A3 NC
B3 NC
A4 (KEY)
B4 MIC 1 (Y) IN 3-A26
A5 MIC 1 (X) IN 3-A27
B5 SHIELD (MIC 1) 3-A25
CN7 AU DC
A1 GND
B1 GND
A2 GND
B2 R SIDE TALLY OUT
A3 GND
B3 L SIDE TALLY OUT
A4 +9V IN
B4 +9V IN
A5 GND 3-B7 8-A7
B5 INCOM 9V IN
A6 (KEY)
B6 +12V(B) IN
A7 -9V IN 3-A30 3-B30
B7 +12V(B) IN
A8 +5V IN
B8 +12V(B) IN
CN8 ADP-2
A1 CHU INCOM 1T OUT 3-A16
B1 NC
A2 SHIELD (INCOM 1) 3-A14
B2 CCU INCOM 1T IN 3-A15
A3 CABLE DATA OUT 2-B18
B3 TRIAX TEST OUT 2-B17
A4 PGM IN 3-A13
B4 SHIELD (PGM) 3-A12
A5 NC
B5 CHU INCOM 2 T OUT 3-A10
A6 CCU INCOM 2 T IN 3-A9
B6 SHIELD (INCOM 2) 3-A8
A7 GND 3-B7 7-A5
B7 INCOM 9V OUT
A8 (KEY)
B8 MIC 2 (X) OUT 3-B19
A9 SHIELD (MIC 2) 3-B21
B9 MIC 2 (Y) OUT 3-B20
A10 NC
B10 MIC 1 (X) OUT 3-B24
A11 SHIELD (MIC 1) 3-B25
B11 MIC 1 (Y) OUT 3-B23
A12 NC
B12 NC
A13 NC
B13 NC
A14 PROMPTER IN
B14 SHIELD(PROMPTER)
CN12 PROMPT
1 PROMPTER OUT
2 SHIELD(PROMPTER)
CN6 LENS 1
A1 IRIS AUTO OUT 2-B7
B1 R TALLY ON OUT 2-B6
A2 (KEY)
B2 NC
A3 FOCUS POSITION IN 2-B8
B3 IRIS CONT OUT 2-B5
A4 ZOOM POSITION IN 2-B10
B4 NC
A5 IRIS POSITION IN 2-B9
B5 NC
A6 NC
B6 GND
CN3 AU
A1 GND
B1 GND
A2 +9V IN
B2 +9V IN
A3 CHU INCOM 2T(H) IN 14-B6
B3 CHU INCOM 1T(H) IN 14-A1 15-A4
A4 PGM 2 TA (H) IN 14-A4
B4 PGM 1 TA (H) IN 14-A5
A5 SHIELD (CHU INCOM1) 14-B1 14-B7 15-B2
B5 SHIELD (CCU INCOM2) 14-A10 15-B1
A6 INCOM 2 ON IN
B6 INCOM 1 ON IN
A7 GND 14-B4 14-B2
B7 GND 7-A5 8-A7
A8 SHIELD (INCOM 2) 8-B6
B8 CCU INCOM 2T(L) OUT 14-B9
A9 CCU INCOM 2T IN 8-A6
B9 PGM 2 RE (L) OUT 14-B11
A10 CHU INCOM 2 T OUT 8-B5
B10 CCU INCOM 2T(H) OUT 14-A9
A11 CHU INCOM 1T(L) 14-A2 15-B3
B11 SHIELD (PGM RE) 14-B10 14-B15 15-B4
A12 SHIELD (PGM) 8-B4
B12 PGM 2 RE (H) OUT 14-A11
A13 PGM IN 8-A4
B13 CCU INCOM 1T(L) OUT 14-B14 15-A2
A14 SHIELD (INCOM 1) 8-A2
B14 CCU INCOM 1T(H) OUT 14-A14 15-A1
A15 CCU INCOM 1 T IN 8-B2
B15 PGM 1 RE (L) OUT 14-B16 15-B5
A16 CHU INCOM 1 T OUT 8-A1
B16 PGM 1 RE (H) OUT 14-A16 15-A5
A17 INCOM 9V IN
B17 INCOM 9V IN
A18 NC 14-B17
B18 NC 14-A17
A19 NC 14-B12
B19 MIC 2 (X) OUT 8-B8
A20 NC 14-A12
B20 MIC 2 (Y) OUT 8-B9
A21 MIC 2 (Y) IN 11-A1
B21 SHIELD (MIC 2) 8-A9
A22 SHIELD (MIC 2) 11-B1
B22 PHANTOM MIC 2 IN
A23 MIC 2 (X) IN 11-B2
B23 MIC 1 (Y) OUT 8-B11
A24 NC
B24 MIC 1 (X) OUT 8-B10
A25 SHIELD (MIC 1) 11-B5
B25 SHIELD (MIC 1) 8-A11
A26 MIC 1 (Y) IN 11-B4
B26 PHANTON MIC 1 IN
A27 MIC 1 (X) IN 11-A5
B27 NC
A28 +12V (B) IN
B28 +12V (B) IN
A29 +5V IN
B29 +5V IN
A30 -9V IN 3-B30 7-A7
B30 -9V IN 3-A30 7-A7
CN4 MBA
B15 GND
A15 GND
B14 -9V IN
A14 +9V IN
B13 +5V IN
A13 +5V IN
B12 UP TALLY OUT
A12 UP TALLY OUT
B11 +12V(A) IN
A11 +12V(A) IN
B10 CCU CN IN
A10 R TALLY OUT
B9 UP TALLY ON IN 2-B27
A9 ZOOM POS OUT 2-A27
B8 IRIS POS OUT 2-B25
A8 FOCUS POS OUT 2-A26
B7 REG VD IN
A7 HD IN
B6 VF RET 2 ON OUT
A6 VF RET 1 ON OUT
B5 IRIS CONT IN
A5 IRIS AUTO IN
B4 (KEY)
A4 CLAMP IN
B3 SYNC IN
A3 BLKG IN
B2 V RESET OUT
A2 GND
B1 EIA/CCIR IN
A1 GND
TP2 VD
TP1 HD
CN2 IF
A1 GND
B1 GND
A2 +9V IN
B2 +9V IN
A3 SHIELD (CCU DATA) 9-A1 13-2
B3 SIDE TALLY OUT
A4 CCU DATA IN 13-1
B4 NC
A5 CHU DATA OUT 13-4
B5 IRIS CONT OUT 6-B3
A6 SHIELD (CHU DATA) 9-A3 13-3
B6 R TALLY ON OUT 6-B1
A7 DB 0 IN/OUT
B7 IRIS AUTO OUT 6-A1
A8 DB 1 IN/OUT
B8 FOCUS POSITION IN 6-A3
A9 DB 2 IN/OUT
B9 IRIS POSITION IN 6-A5
A10 DB 3 IN/OUT
B10 ZOOM POSITION IN 6-A4
A11 DB 4 IN/OUT
B11 NC
A12 SHIELD (IF DATA)
B12 NC
A13 DB 5 IN/OUT
B13 NC
A14 DB 6 IN/OUT
B14 (MONI SELECT C OUT)
A15 DB 7 IN/OUT
B15 (MONI SELECT B OUT)
A16 ACCESS READY IN
B16 (MONI SELECT A OUT)
A17 ALE OUT
B17 TRIAX TEST OUT 8-B3
A18 READ OUT
B18 CABLE DATA OUT 8-A3
A19 WRITE OUT
B19 NC
A20 HOLD OUT
B20 +12V(B) IN
A21 RESET 5.5 OUT
B21 +12V(B) IN
A22 CHU DATA (REM) OUT 9-B3
B22 REM DATA IN 9-B1
A23 V RESET OUT
B23 EIA/CCIR IN
A24 IRIS AUTO IN
B24 IRIS CONT IN
A25 HD IN
B25 IRIS POSITION OUT 4-B8
A26 FOCUS POSITION OUT 4-A8
B26 UP TALLY OUT
A27 ZOOM POSIOTIONOUT 4-A7
B27 UP TALLY ON IN 4-B7
A28 R TALLY IN
B28 UP TALLY OUT
A29 +5V IN
B29 +5V IN
A30 -9V IN
B30 -9V IN
CN5 IF OUT
A1 GND
B1 DB 0 IN/OUT
A2 GND
B2 DB 1 IN/OUT
A3 GND
B3 DB 2 IN/OUT
A4 GND
B4 DB 3 IN/OUT
A5 GND
B5 NC
A6 GND
B6 DB 4 IN/OUT
A7 GND
B7 DB 5 IN/OUT
A8 GND
B8 DB 6 IN/OUT
A9 GND
B9 DB 7 IN/OUT
A10 GND
B10 ACCESS READY IN
A11 GND
B11 ALE OUT
A12 (KEY)
B12 READ OUT
A13 GND
B13 WRITE OUT
A14 GND
B14 HOLD OUT
A15 GND
B15 RESET 5.5 OUT
CN1 OPTION
A1 GND
B1 GND
A2 +9V
B2 +9V
A3 NC
B3 NC
A4 NC
B4 NC
A5 NC
B5 NC
A6 NC
B6 NC
A7 NC
B7 NC
A8 NC
B8 NC
A9 NC
B9 NC
A10 NC
B10 NC
A11 NC
B11 NC
A12 NC
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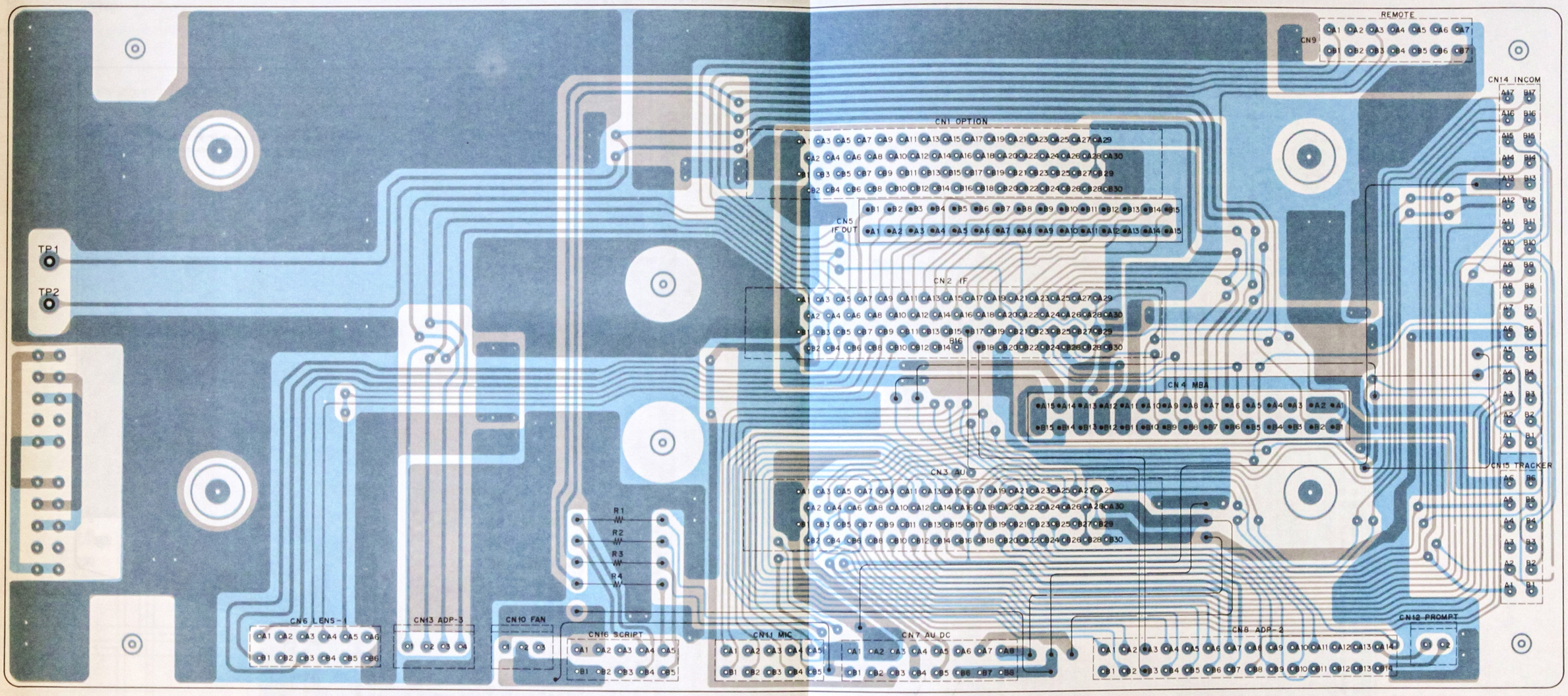
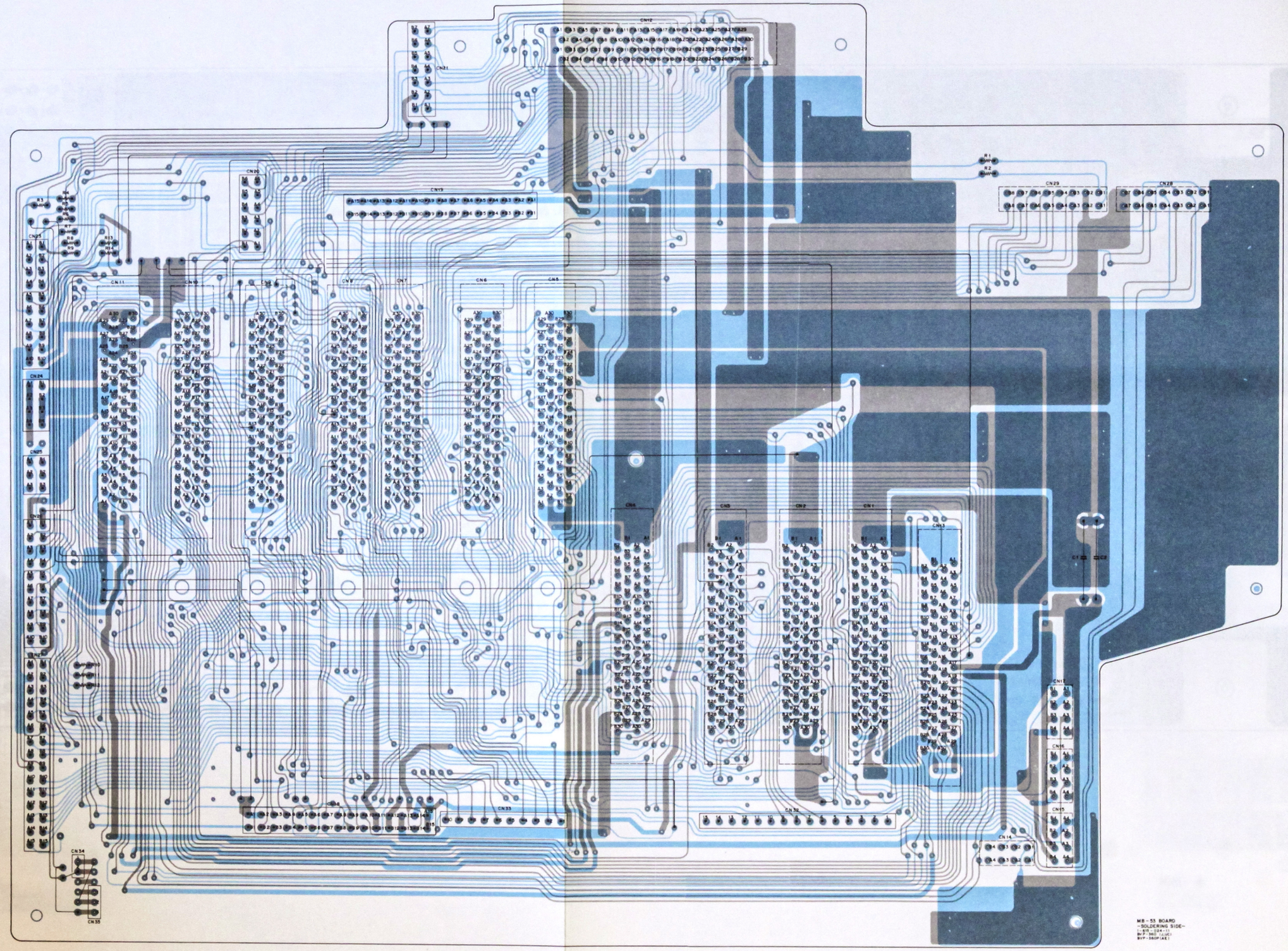
A21 NC
B21 NC
A22 NC
B22 NC
A23 NC
B23 NC
A24 NC
B24 NC
A25 NC
B25 NC
A26 NC
B26 NC
A27 NC
B27 NC
A28 NC
B28 NC
A29 +5V
B29 +5V
A30 -9V
B30 -9V
CN9 REMOTE
A1 SHIELD (REM DATA) 2-A3 13-2
B1 REM DATA IN 2-B22
A2 (KEY)
B2 NC
A3 SHIELD (CHU DATA) 2-A6 13-3
B3 CHU DATA(REM) OUT 2-A22
A4 NC
B4 R TALLY IN
A5 NC
B5 NC
A6 NC
B6 NC
A7 GND
B7 +12V (A) OUT
CN14 INCOM
B17 NC 3-A18
A17 NC 3-B18
B16 PGM 1 RE (L) OUT 3-B15 15-B5
A16 PGM 1 RE (H) OUT 3-B16 15-A5
B15 SHIELD(PGM 1 RE) 3-B11 14-B10 15-B4
A15 NC
B14 CCU INCOM 1T(L) OUT 3-B13 15-A2
A14 CCU INCOM 1T(H) OUT 3-B14 15-A1
B13 GND
A13 (KEY)
B12 NC 3-A19
A12 NC 3-A20
B11 PGM 2 RE(L) OUT 3-B9
A11 PGM 2 RE(H) OUT 3-B12
B10 SHIELD(PGM 2 RE) 3-B11 14-B15 15-B4
A10 SHIELD(CCU INCOM2) 3-B5 15-B1
B9 CCU INCOM 2T(L) OUT 3-B8
A9 CCU INCOM 2T(H) OUT 3-B10
B8 INCOM 2 ON IN
A8 NC
B7 SHIELD(CHU INCOM2) 3-A5 14-B1 15-B2
A7 NC
B6 CHU INCOM 2T(H) IN 3-A3
A6 +5V IN
B5 NC
A5 PGM 1 TA (H) IN 3-B4
B4 SHIELD(PGM 1 TA) 3-A7 14-B2
A4 PGM 2 TA (H) IN 3-A4
B3 NC
A3 INCOM 1 ON IN
B2 SHIELD(PGM 2 TA) 3-A7 14-B4
A2 CHU INCOM 1T(L) 3-A11 15-B3
B1 SHIELD(CHU INCOM1) 3-A5 14-B7 15-B2
A1 CHU INCOM 1T(H) IN 3-B3 15-A4
CN15 TRACKER
B6 UP TALLY OUT
A6 GND
B5 PGM 1 RE (L) OUT 3-B15 14-B16
A5 PGM 1 RE (H) OUT 3-B16 14-A16
B4 SHIELD (PGM 1 RE) 3-B11 14-B10 14-B15
A4 CHU INCOM 1T (H) IN 3-B3 14-A1
B3 CHU INCOM 1T (L) 3-A11 14-A2
A3 (KEY)
B2 SHIELD (CHU INCOM1) 3-A5 14-B1 14-B7
A2 CCU INCOM 1T(L) OUT 3-B13 14-B14
B1 SHIELD (INCOM 1 RE) 3-B5 14-A10
A1 CCU INCOM 1T(H) OUT 3-B14 14-A14
MB-4
BVP-360(J,UC)
BVP-360P(AE)

MB-4 BOARD
– SOLDERING SIDE –

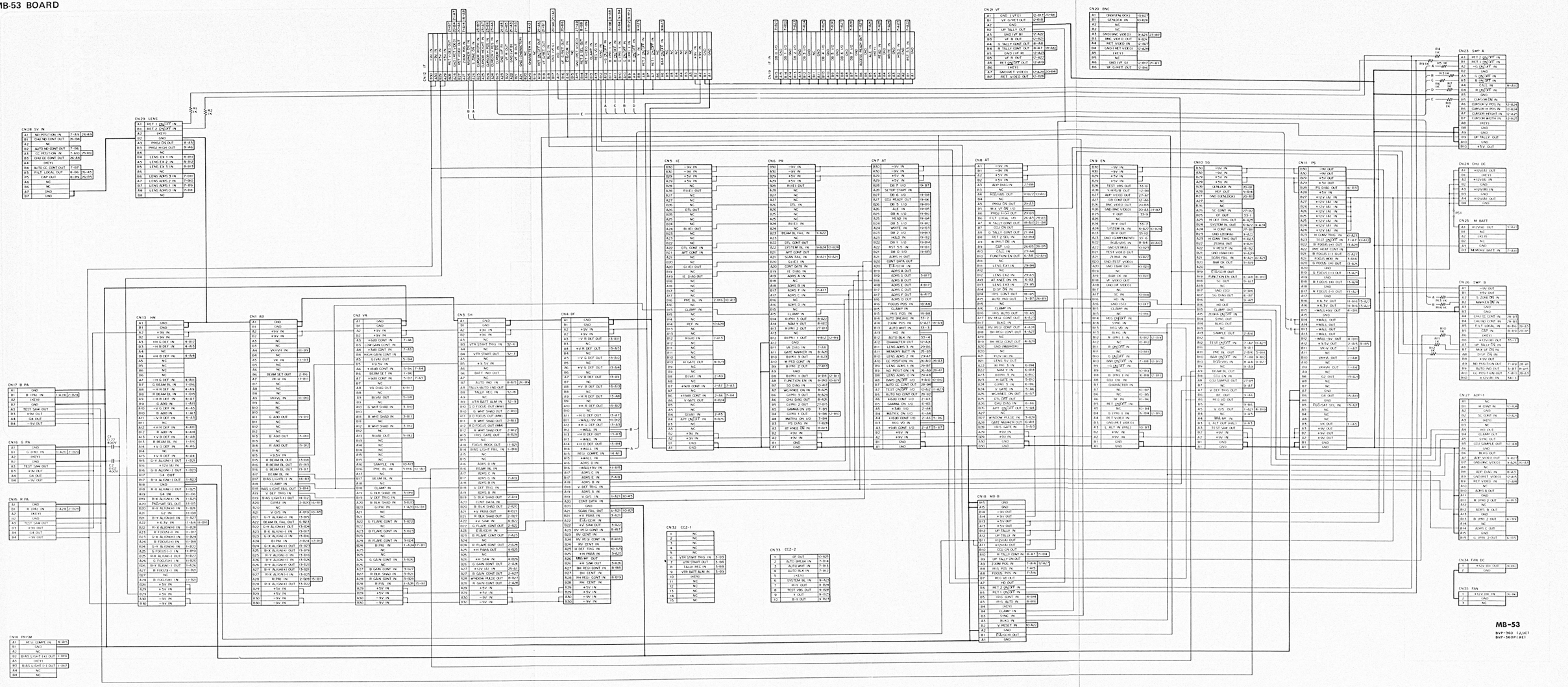


MB-4 BOARD
– SOLDERING SIDE –
1-615-027-11
BVP-360 (J,UC)
BVP-360P(AE)

MB-53 BOARD
– SOLDERING SIDE –

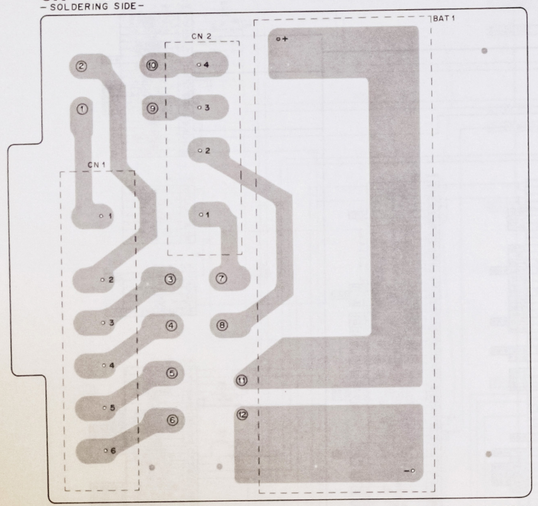


MB-53 BOARD



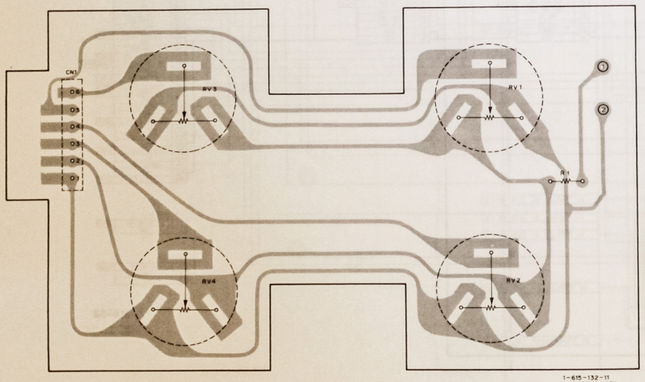
FRAME (CN-11,28 HN-32 SWB-1
FU-24/24A SW-11,12 VR-11,30)

CN-11 BOARD
–SOLDERING SIDE–



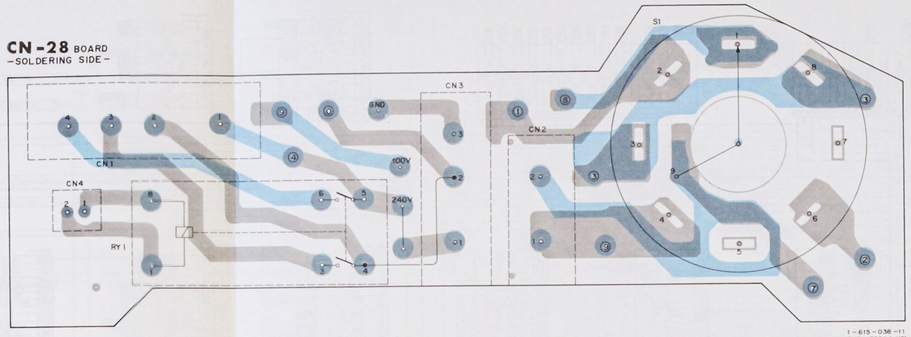
1-615-804-11
BVP-360(J,UC)
BVP-360P(AE)

VR-11 BOARD
–SOLDERING SIDE–



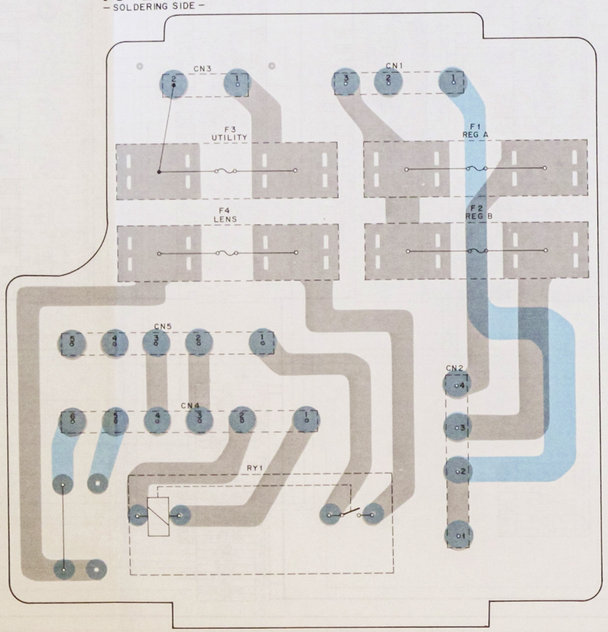
1-615-132-11
BVP-360(J,UC)
BVP-360P(AE)

CN-28 BOARD
–SOLDERING SIDE–



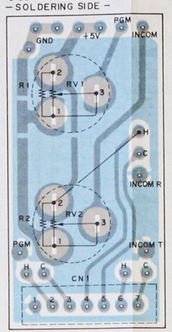
1-615-036-11
BVP-360(J,UC)
BVP-360P(AE)

FU-24/24A BOARD
–SOLDERING SIDE–

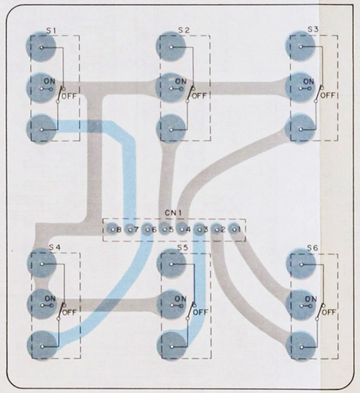


1-615-028-11
BVP-360(J,UC)
1-615-028-21
BVP-360P(AE)

VR-30 BOARD
–SOLDERING SIDE–

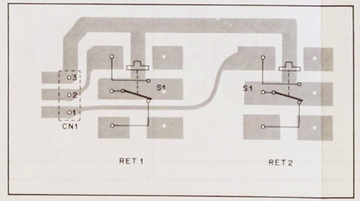


1-615-803-11
BVP-360(J,UC)
BVP-360P(AE)



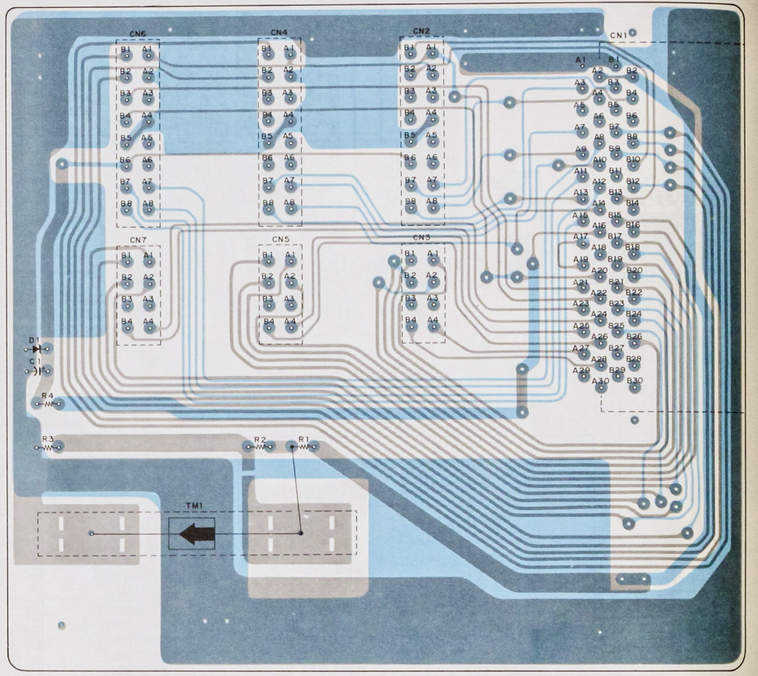
SWB-1 BOARD
–SOLDERING SIDE–

1-615-134-11
BVP-360(J,UC)
BVP-360P(AE)



SW-11 BOARD
–SOLDERING SIDE–

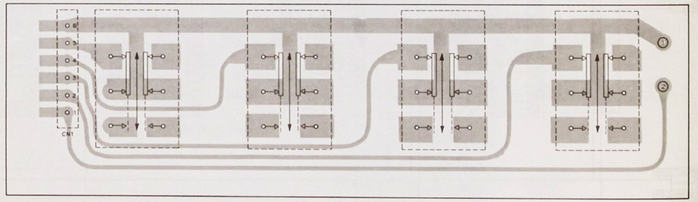
1-615-133-11
BVP-360(J,UC)
BVP-360P(AE)



HN-32 BOARD
–SOLDERING SIDE–

1-615-008-11
BVP-360 (J,UC)
BVP-360P(AE)

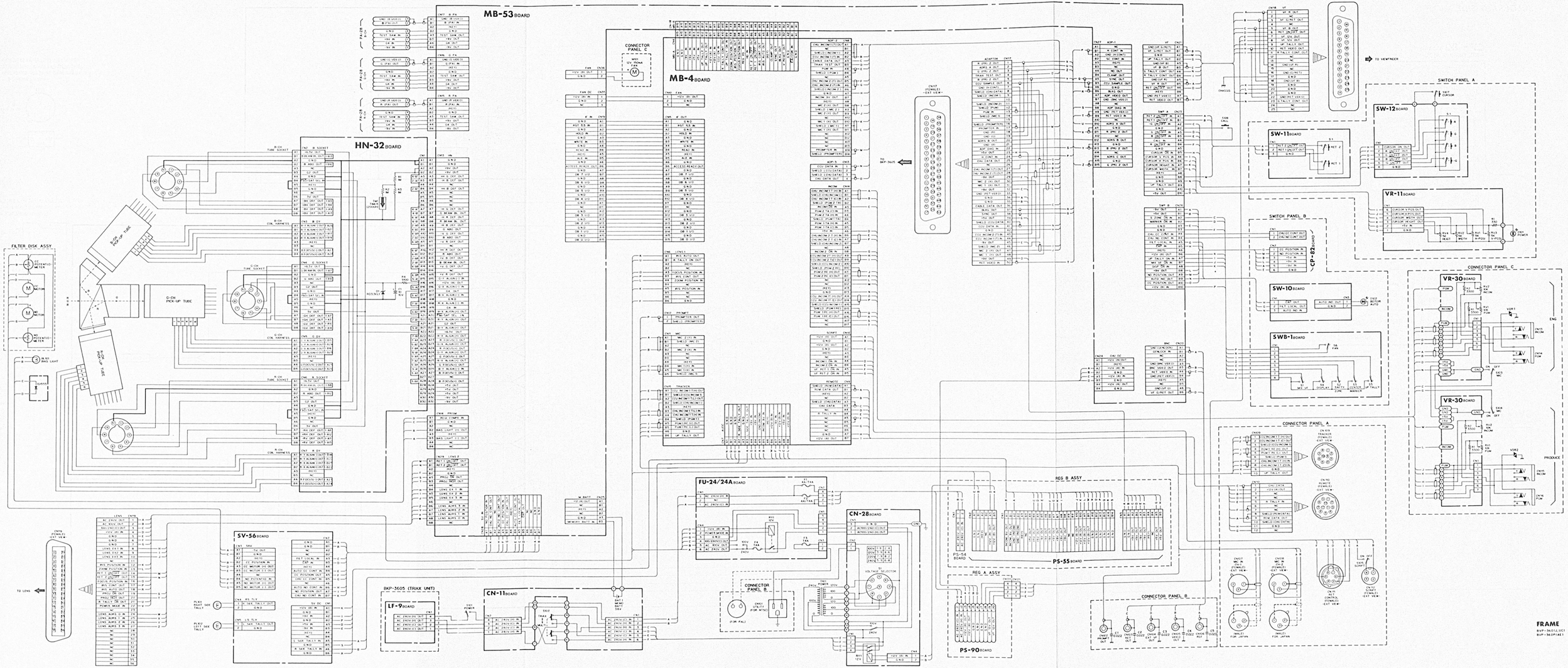
SW-12 BOARD
–SOLDERING SIDE–



1-615-039-11
BVP-360(J,UC)
BVP-360P(AE)

CN-11,28 HN-32 SWB-1
FU-24/24A SW-11,12 VR-11,30 FRAME

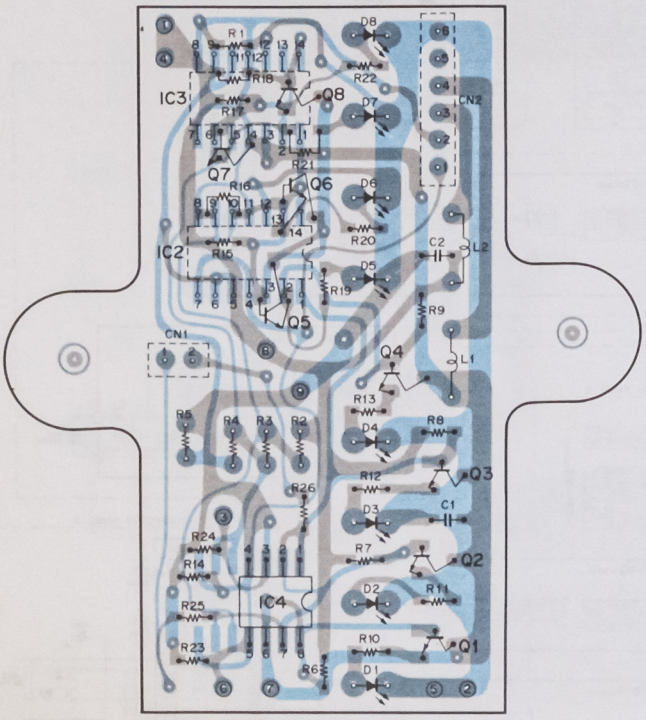
FRAME CN-11,28 HN-32 SWB-1
FU-24/24A SW-11,12 VR-11,30


MB-53 BOARD
MB-4 BOARD
HN-32 BOARD
SV-56 BOARD
LF-9 BOARD
CN-11 BOARD
FU-24/24A BOARD
CN-28 BOARD
REG B ASSY
REG A ASSY
PS-54 BOARD
PS-55 BOARD
PS-90 BOARD
CONNECTOR PANEL C
CONNECTOR PANEL A
CONNECTOR PANEL B
SWITCH PANEL A
SWITCH PANEL B
SW-12 BOARD
SW-11 BOARD
VR-11 BOARD
SW-10 BOARD
SWB-1 BOARD
CP-82 BOARD
VR-30 BOARD
FILTER DISK ASSY
B-CH PICK-UP TUBE
G-CH PICK-UP TUBE
R-CH PICK-UP TUBE
BKP-360S (TRIAX UNIT)
TO VIEWFINDER
TO BKP-360S

SW PANEL (CP-82 / SW-10, 79)

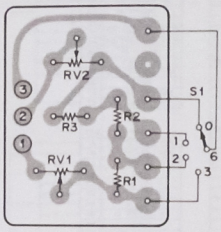
– SOLDERING SIDE –

CP-82 BOARD
– SOLDERING SIDE –



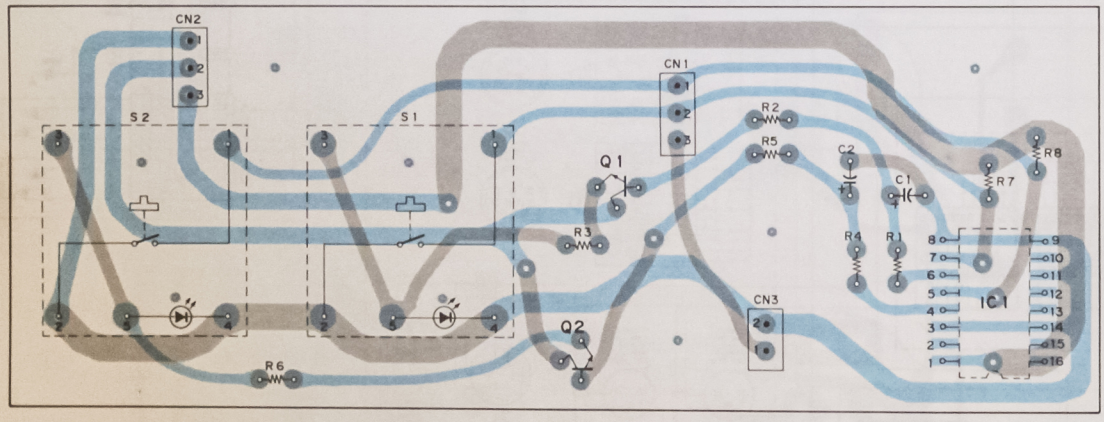
1-615-034-11
BVP-360(J,UC)
BVP-360P(AE)

SW-79 BOARD
– SOLDERING SIDE –



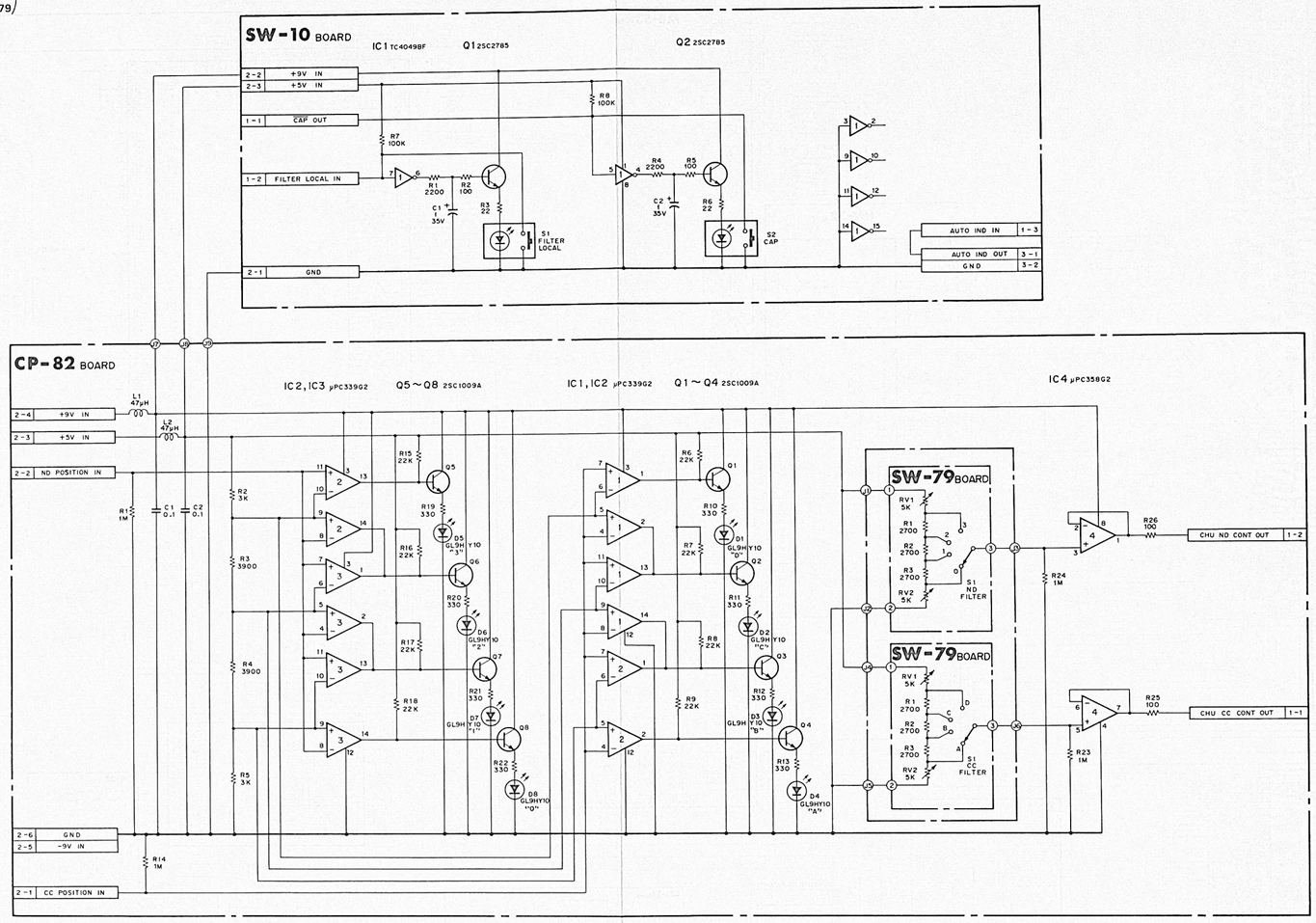
1-615-035-11
BVP-360(J,UC)
BVP-360P(AE)

SW-10 BOARD
– SOLDERING SIDE –



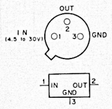
1-615-036-11
BVP-360(J,UC)
BVP-360P(AE)

SW PANEL CP-82
SW-10, 79

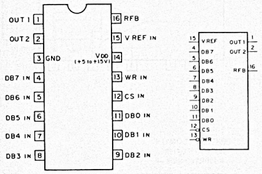


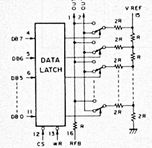
SECTION 7
SEMICONDUCTOR

AD580M (ANALOG DEVICES)
AD580MH (ANALOG DEVICES)
REFERENCE VOLTAGE GENERATOR (2.5V)
— BOTTOM VIEW —

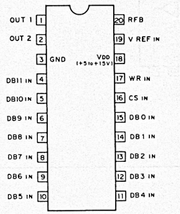


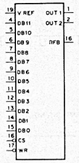
AD7524JN (ANALOG DEVICES)
C-MOS 8-BIT BUFFERED MULTIPLYING D/A CONVERTOR
— TOP VIEW —

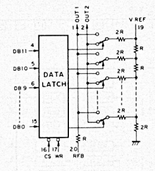




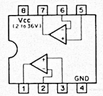
AD7545JN (ANALOG DEVICES)
C-MOS 12-BIT BUFFERED MULTIPLYING D/A CONVERTOR
— TOP VIEW —



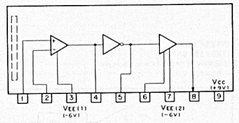




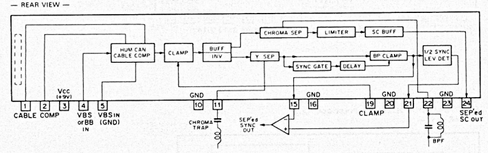
BA6993 (ROHM)
VOLTAGE COMPARATOR
— TOP VIEW —



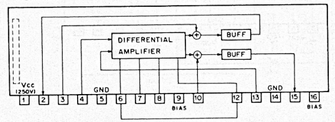
BX315 (SONY)
VIDEO OUTPUT AMPLIFIER (PHASE INVERTED)
— REAR VIEW —



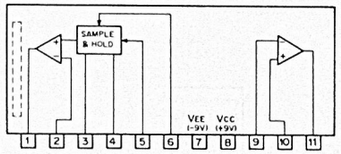
BX1040 (SONY)
SYNC SEPARATOR
— REAR VIEW —



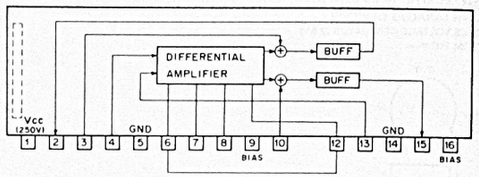
BX1372 (SONY)
REGISTRATION CORRECTOR
— REAR VIEW —



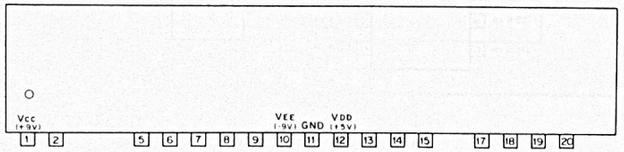
BX1082 (SONY)
OPERATIONAL AMPLIFIER
— REAR VIEW —



BX1278 (SONY)
REGISTRATION CORRECTOR
— REAR VIEW —

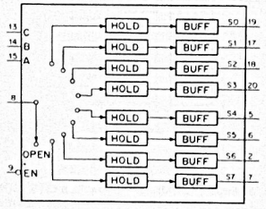


BX1179 (SONY)
8-CHANNEL SELECTABLE SAMPLING HOLDER
— PRINTED SIDE —

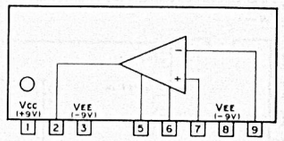


EN	C	B	A	"ON" CHANNEL
0	0	0	0	S0
0	0	0	1	S1
0	0	1	0	S2
0	0	1	1	S3
0	1	0	0	S4
0	1	0	1	S5
0	1	1	0	S6
0	1	1	1	S7
1	X	X	X	OPEN

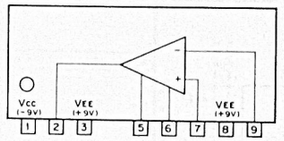
0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE



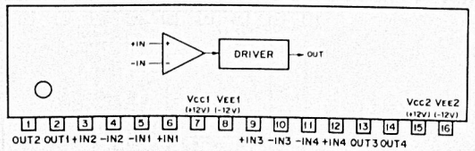
BX1304 (SONY)
VIDEO AMPLIFIER
— PRINTED SIDE —



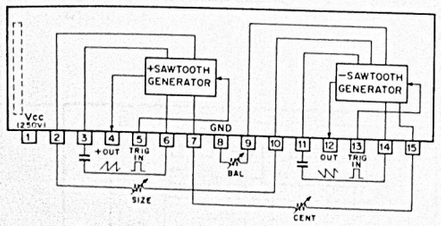
BX1305 (SONY)
VIDEO AMPLIFIER
— PRINTED SIDE —



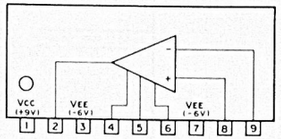
BX1234 (SONY)
STK6932 (SANYO)
SEMIPOWER OPERATIONAL AMPLIFIER
— PRINTED SIDE —



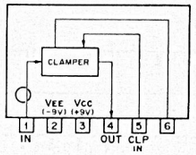
BX1277 (SONY)
POSITIVE/NEGATIVE DEFLECTION PULSE GENERATOR
— REAR VIEW —



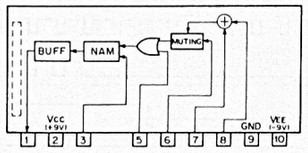
BX1356 (SONY)
VIDEO OUTPUT AMPLIFIER
— PRINTED SIDE —



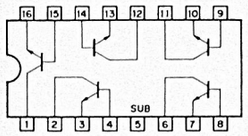
BX1369 (SONY)
VIDEO CLAMPER
— PRINTED SIDE —



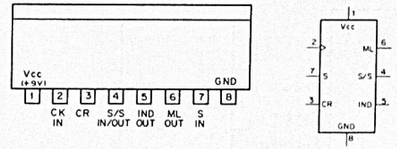
BX3933 (SONY)
— REAR VIEW —

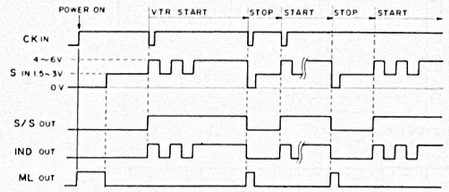


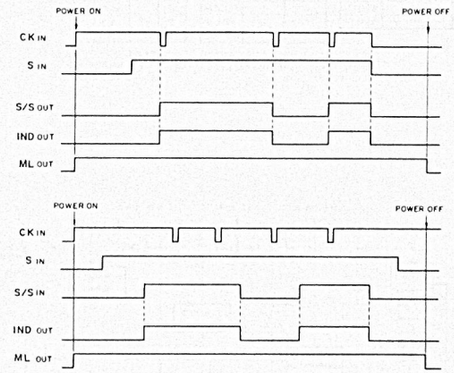
CA3127E (RCA)
SL3127C (PLESSEY)
HIGH FREQUENCY TRANSISTOR ARRAY
— TOP VIEW —



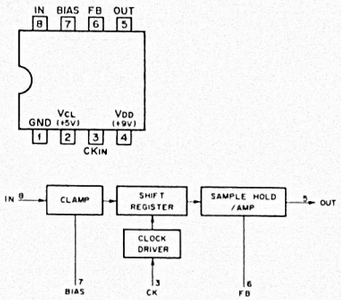
CX518 (SONY)
INTERFACE CIRCUIT BETWEEN VTR AND CAMERA
— SIDE VIEW —







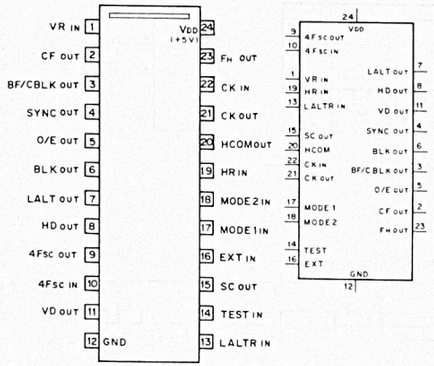
CXL5001 (SONY)
C-MOS CCD 1H DELAY LINE (FOR NTSC)
— TOP VIEW —



CX773A (SONY)

C-MOS SYNC GENERATOR (NTSC, PAL-M, PAL SECAM)

— TOP VIEW —



O/E : ODD/EVEN FIELD
CF : COLOR FRAME PULSE
HCOM : H COMPARATOR

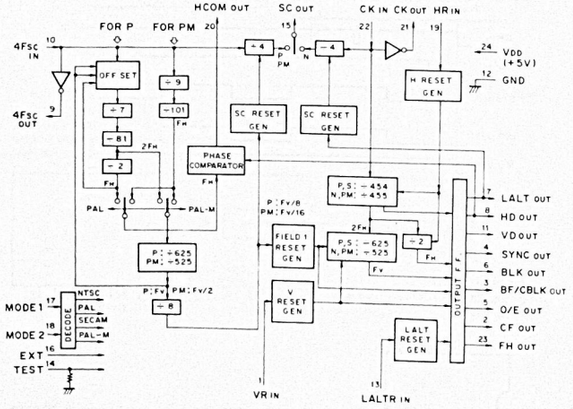
SYSTEM	4Fsc	CLOCK
NTSC	910 FH	910FH
PAL	1135 FH+2Fv	908FH
PALM	909 FH	910FH
SECAM	——	908FH

INPUTS		SYSTEM
MODE 1	MODE 2	
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL

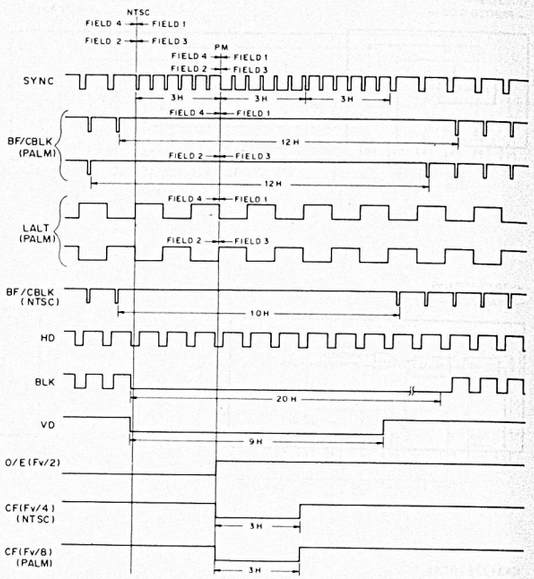
0 ; LOW LEVEL (GND)
1 ; HIGH LEVEL (VDD)

INPUTS		FUNCTION
EXT	TEST	
0	0	INTERNAL
0	1	INVALID
1	0	EXT
1	1	TEST

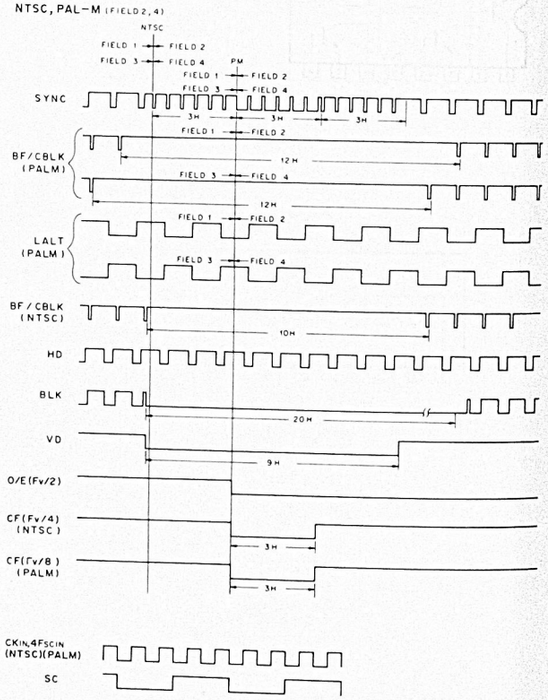
TEST "0" OPEN (INTERNALLY PULLED DOWN)



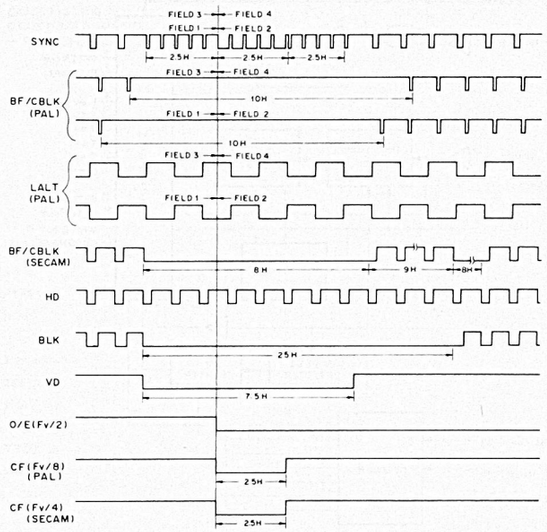
NTSC, PAL-M (FIELD 1,3)



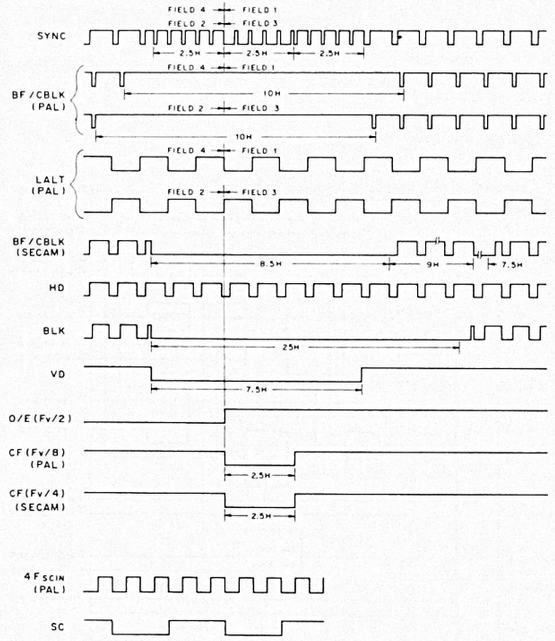
NTSC, PAL-M (FIELD 2,4)



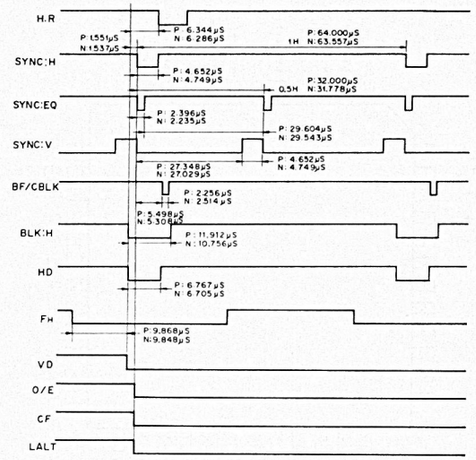
PAL, SECAM (FIELD 4,2)



PAL, SECAM (FIELD1,3)



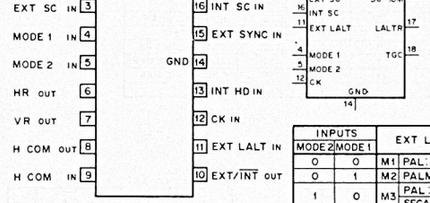
P : PAL, SECAM
N : NTSC, PALM



CX7903 (SONY)

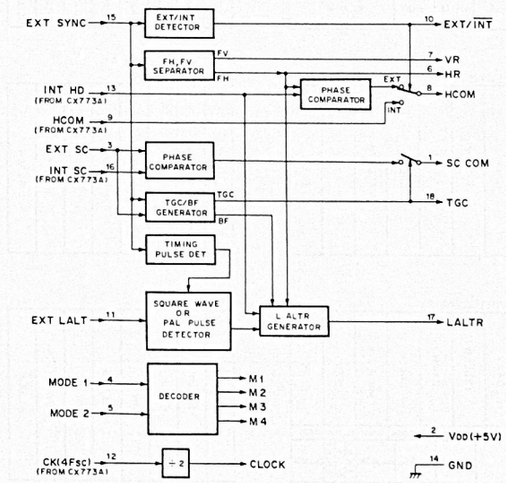
C-MOS GENLOCK DRIVER FOR CX773A

— TOP VIEW —

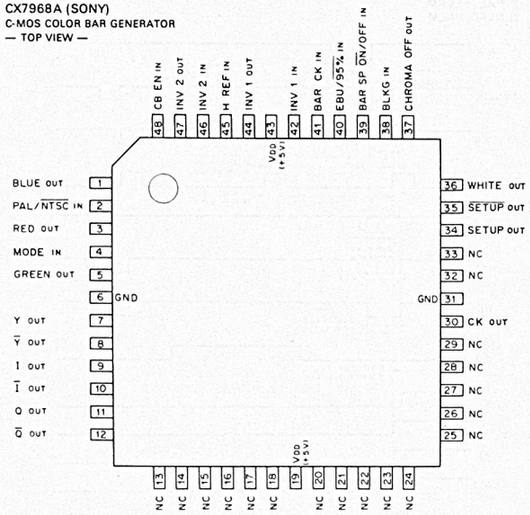


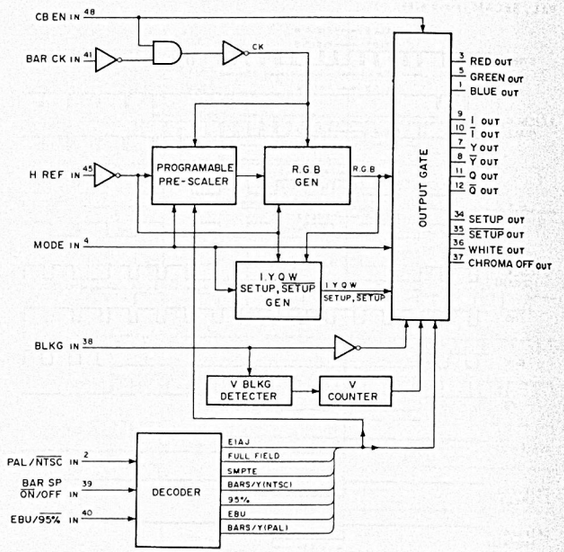
INPUTS			EXT LOCK MODE
MODE 2	MODE 1		
0	0	M1	PAL : VBS
0	1	M2	PALM : VBS
1	0	M3	PAL : VS/SC/LALT
			SECAM : VS/SC/LALT
1	1	M4	NTSC : VBS
			NTSC : VS/SC
			PALM : VS/SC/LALT

0 ; LOW LEVEL
1 ; HIGH LEVEL



CX7968A (SONY)
C-MOS COLOR BAR GENERATOR
— TOP VIEW —



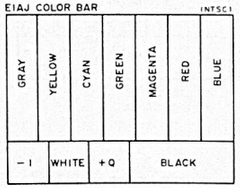


INPUT				FUNCTION
PAL/NTSC	MODE	EBU/95%	BAR SP	
0	0	0	0	EIAJ COLOR BAR
0	0	0	1	FULL FIELD COLOR BAR
0	0	1	0	INHIBIT
0	0	1	1	INHIBIT
0	1	0	0	EIAJ COLOR BAR
0	1	0	1	FULL FIELD COLOR BAR
0	1	1	0	SMPTE COLOR BAR
0	1	1	1	COLOR BAR + Y BAR
1	0	0	0	95% COLOR BAR
1	0	0	1	INHIBIT
1	0	1	0	EBU COLOR BAR
1	0	1	1	INHIBIT
1	1	0	0	95% COLOR BAR
1	1	0	1	COLOR BAR + Y BAR
1	1	1	0	EBU COLOR BAR
1	1	1	1	INHIBIT

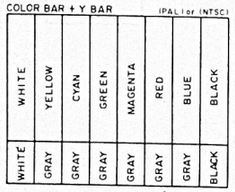
0 , LOW LEVEL
1 , HIGH LEVEL

O COLOR BAR PATTERN

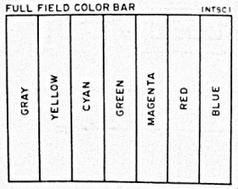
EIAJ COLOR BAR (NTSC)



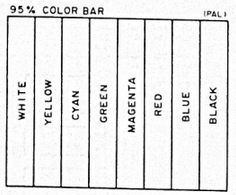
COLOR BAR + Y BAR (PAL) or (NTSC)



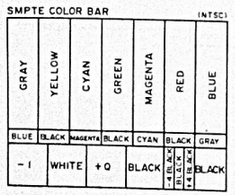
FULL FIELD COLOR BAR (NTSC)



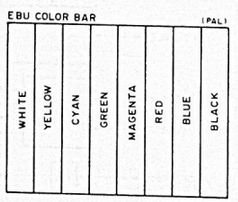
95% COLOR BAR (PAL)



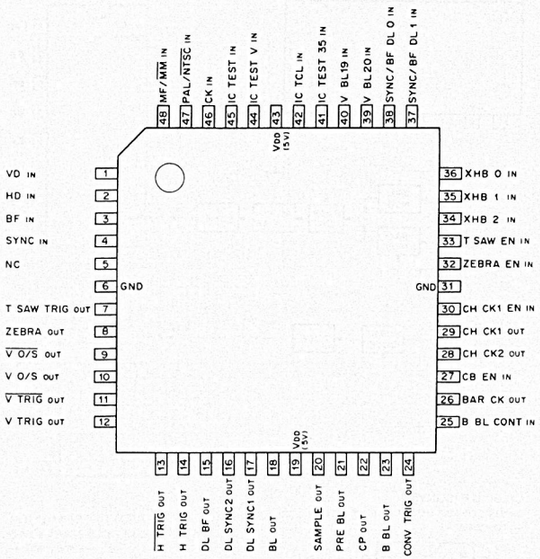
SMPTE COLOR BAR (NTSC)

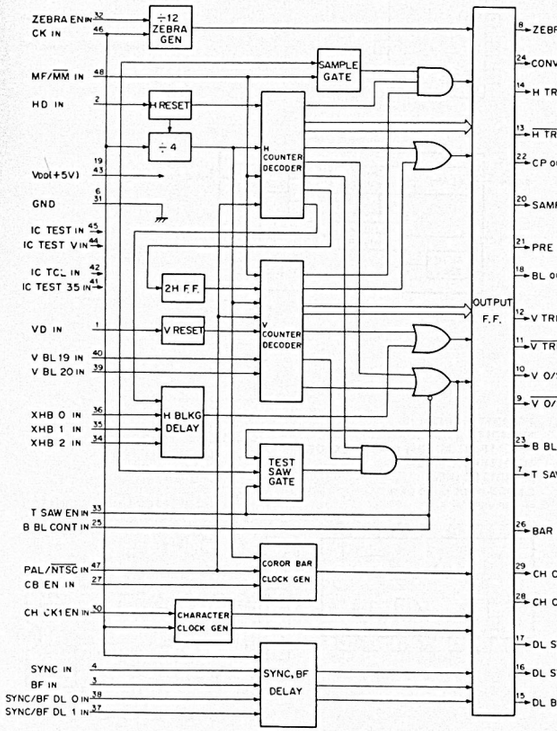


EBU COLOR BAR (PAL)



CX7969 (SONY)
C-MOS PULSE GENERATOR
— TOP VIEW —





1. SYSTEM DESIGNATION

INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

2. TYPE OF TUBE

INPUT	FUNCTION
MF/MM IN	
1	MAG-STA TUBE
0	MAG-MAG TUBE

3. V BLKG WIDTH (NTSC ONLY)

INPUT		V BLKG WIDTH
V BL 19	V BL 20	
1	X	19H
0	0	20H
0	1	21H

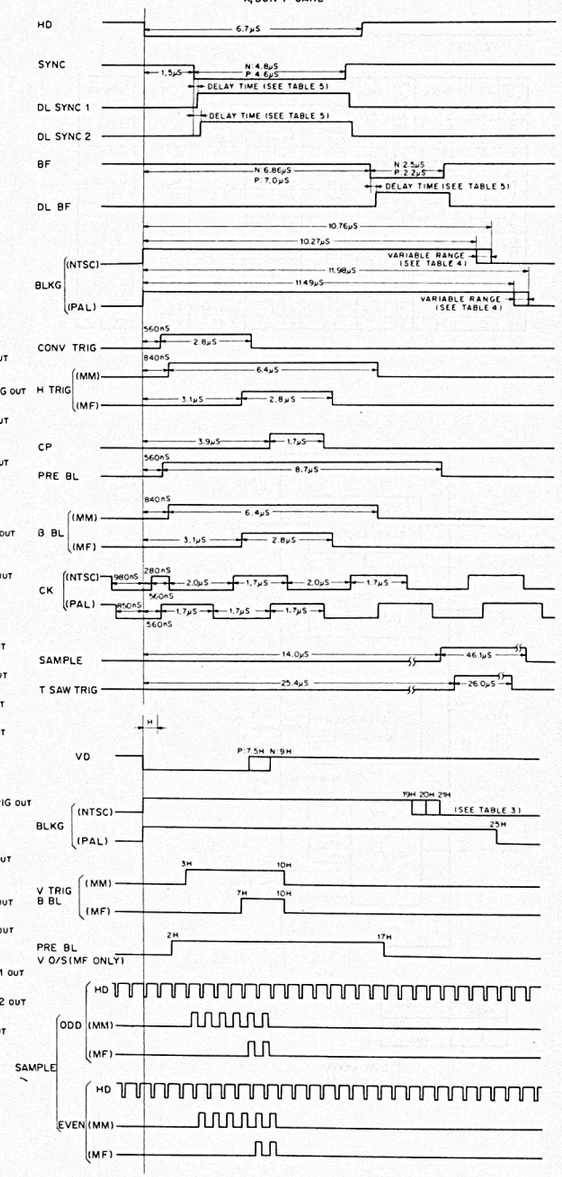
4. H BLKG WIDTH

INPUT			BLKG WIDTH (μS)	
XHB2	XHB1	XHB0	NTSC	PAL
1	1	1	10.27	11.49
1	1	0	10.34	11.56
1	0	1	10.41	11.63
1	0	0	10.48	11.70
0	1	1	10.55	11.77
0	1	0	10.62	11.84
0	0	1	10.69	11.91
0	0	0	10.76	11.98

5. DELAY TIME

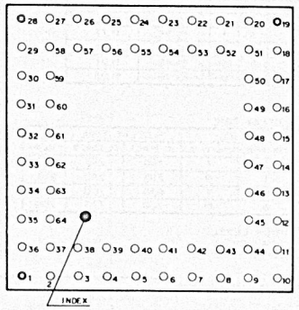
INPUT		DELAY TIME (nS)		
SYNC/BF DL1	SYNC/BF DL2	DL SYNC 1	DL SYNC 2	DL BF
1	1	140	210	140
1	0	210	280	210
0	1	630	700	630
0	0	700	770	700

1; HIGH LEVEL
0; LOW LEVEL
X; DON'T CARE



CX7971 (SONY)

C-MOS DIGITAL REGISTRATION ADDRESS COUNTER
DIGITAL REGISTRATION (V) DATA ADDER
— TOP VIEW —



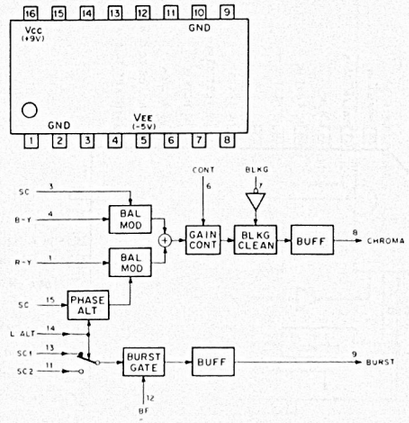
PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO	I/O	SYMBOL
1	O	A7	17	O	D03	33	I	RESET	49	O	D05
2	O	A6	18	O	D02	34	I	MODE	50	O	D06
3	O	A4	19	O	D01	35	O	A8	51	O	D07
4	O	A2	20	O	D00	36	O	A9	52	O	D08
5	O	A1	21	O	D09	37	O	A10	53	O	D15
6	I	D17	22	O	D14	38	O	A5	54		Vss (GND)
7	I	D16	23	O	D13	39	O	A3	55	O	D16
8	I	D15	24	O	D12	40		Vss(GND)	56	O	D17
9	I	D14	25	O	D11	41	O	A0	57	O	D18
10	I	D13	26	O	D10	42	I	D10	58	O	D19
11	I	D03	27	I	CK64FH	43	I	D11	59		NC
12	I	D04	28	O	CY (H)	44	I	D12	60	I/O	ADRS LATCH
13	I	D05	29	O	CK16FH	45	I	D02	61		NC
14	I	D06	30	O	CK8FH	46	I	D01	62	I	TEST 3
15	I	D00	31	I/O	DATA LATCH	47		Vdd (+5V)	63	I	TEST 1
16	O	D04	32	I	VD	48	I	D07	64	I	TEST 2

INPUT MODE	SYSTEM
0	NTSC
1	PAL

0; LOW LEVEL
1; HIGH LEVEL

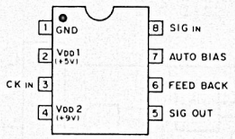
CX22017 (SONY)

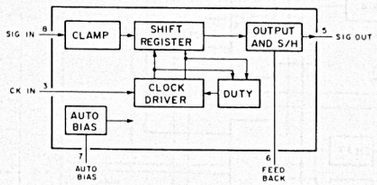
VIDEO SIGNAL PROCESSOR
— TOP VIEW —



CXL5001P (SONY)

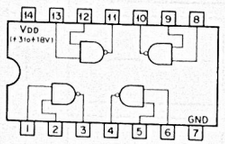
C-MOS CCD FOR NTSC 1H DELAY LINE
— TOP VIEW —

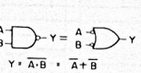




HD14011BP (HITACHI)
MB84011B (FUJITSU)
TC4011BF (TOSHIBA) FLAT PACKAGE
TC4011BP (TOSHIBA)
uPD4011BC (NEC)

C-MOS 2-INPUT NAND GATE
— TOP VIEW —



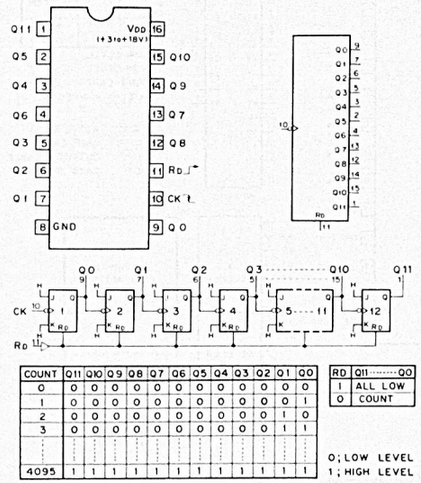


A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

HD14040BFP (HITACHI) FLAT PACKAGE
TC4040BF (TOSHIBA) FLAT PACKAGE

C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
— TOP VIEW —



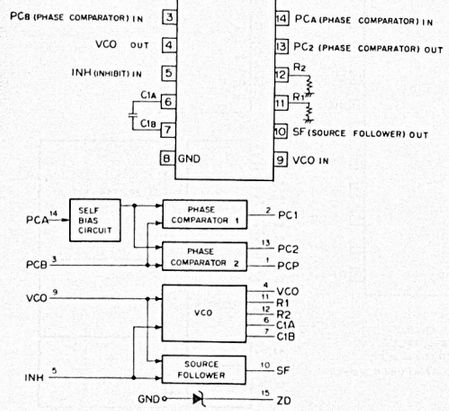
COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
4095	1	1	1	1	1	1	1	1	1	1	1	1

Rd	Q11 ····· Q0
1	ALL LOW
0	COUNT

0; LOW LEVEL
1; HIGH LEVEL

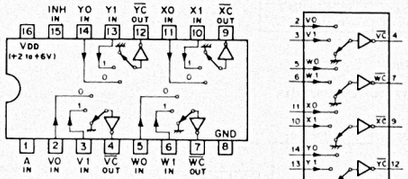
HD14046BP (HITACHI)

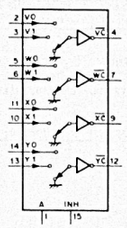
C-MOS PHASE LOCKED LOOP
— TOP VIEW —



HD74HC158P (HITACHI)

C-MOS 2-LINE-TO-1-LINE INVERTED DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



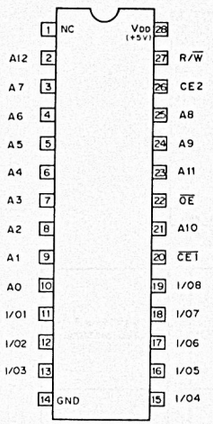


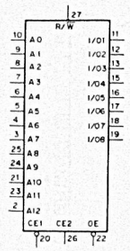
CONT. IN INH	CONT. IN A	ON CHANNEL
0	0	0
0	1	1
1	X	GND

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

HM6264LFP-15 (HITACHI) (ACCESS TIME = 150 nS) FLAT PACKAGE

C-MOS 8192 WORDx8-BIT RAM
— TOP VIEW —

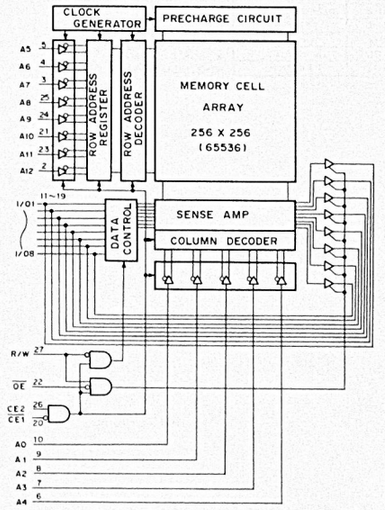




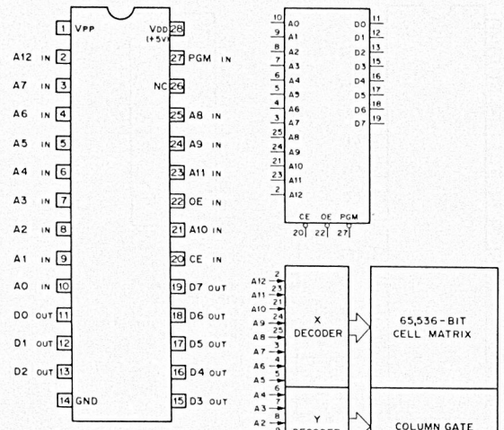
A0~12 ; ADDRESS INPUT
CE1,2 ; CHIP ENABLE
OE ; OUTPUT ENABLE
I/O1~8 ; DATA INPUT/OUTPUT
R/W ; READ/WRITE

MODE	$\overline{CE1}$	CE2	$\overline{OE}$	R/W	I/O1 ~ 8
READ	0	1	0	1	DATA OUTPUT
WRITE	0	1	X	0	DATA INPUT
OUTPUT DESELECT	X	X	1	X	HI-Z
STANDBY	1	X	X	X	HI-Z
	X	0	X	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE



HN27C64G-20 (HITACHI) (ACCESS TIME = 200 nS)
MBM27C64-25 (FUJITSU) (ACCESS TIME = 250 nS)
C-MOS 64K (8K-8) ERASABLE PROM WITH 3-STATE OUTPUTS
— TOP VIEW —

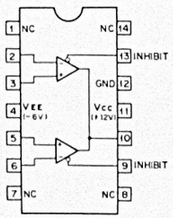


A0-A12 ; ADDRESS
CE ; CHIP ENABLE
D0-D7 ; DATA OUTPUT
OE ; OUTPUT ENABLE
PGM ; PROGRAM ENABLE
VPP ; PROGRAM VOLTAGE

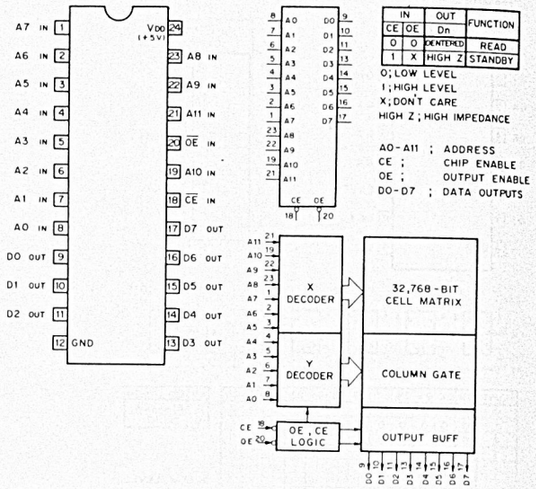
An	CE	OE	PGM	VPP	Dn	FUNCTION
An	0	0	1	+5V	D OUT	READ
An	0	1	1	+5V	HI-Z	OUTPUT DISABLE
An	0	0	0	+5V	HI-Z	OUTPUT DISABLE
X	1	X	X	+5V	HI-Z	STANDBY
An	0	X	⊔	+21V	DIN	PGM
An	0	0	1	+21V	D OUT	PGM VERIFY
X	1	X	X	+21V	HI-Z	PGM INH

0, LOW LEVEL
1 ; HIGH LEVEL
X, DON'T CARE
HI-Z, HIGH INPEDANCE

LM711CN (NS)
VOLTAGE COMPARATOR
— TOP VIEW —



MBM27C32A-25 (FUJITSU) (ACCESS TIME = 250 nS)
C-MOS 32K (4Kx8) UV EPROM
— TOP VIEW —

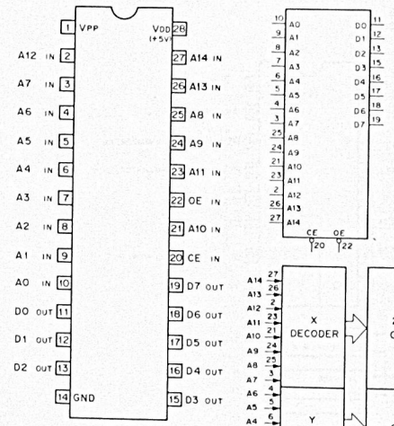


IN		OUT	FUNCTION
CE	OE	Dn	
0	0	DEXTENDED	READ
1	X	HIGH Z	STANDBY

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HIGH Z; HIGH IMPEDANCE

A0-A11 ; ADDRESS
CE ; CHIP ENABLE
OE ; OUTPUT ENABLE
D0-D7 ; DATA OUTPUTS

MBM27C256-25 (FUJITSU) (ACCESS TIME = 250 nS)
C-MOS 256K (32K-8) ERASABLE PROM WITH 3-STATE OUTPUTS
— TOP VIEW —

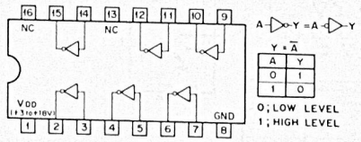


A0-A12 ; ADDRESS
CE ; CHIP ENABLE
D0-D7 ; DATA OUTPUT
OE ; OUTPUT ENABLE
VPP ; PROGRAM POWER SUPPLY

An	CE	OE	Vpp	Dn	FUNCTION
An	0	0	+5V	D out	READ
An	0	1	+5V	HI-Z	OUTPUT DISABLE
X	1	X	+5V	HI-Z	STANDBY
An	0	1	+21V	D IN	PGM
An	0	0	+21V	D out	PGM VERIFY
X	1	X	+21V	HI-Z	PGM INH

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
HI-Z ; HIGH INPEDANCE

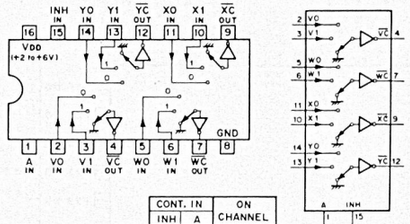
MB84049B (FUJITSU)
TC4049BF (TOSHIBA) FLAT PACKAGE
C-MOS INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

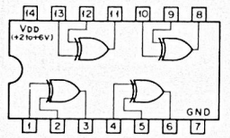
MC74HC158N (MOTOROLA)
C-MOS 2-LINE-TO-1-LINE INVERTED DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



CONT. IN		ON
INH	A	CHANNEL
0	0	0
0	1	1
1	X	GND

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

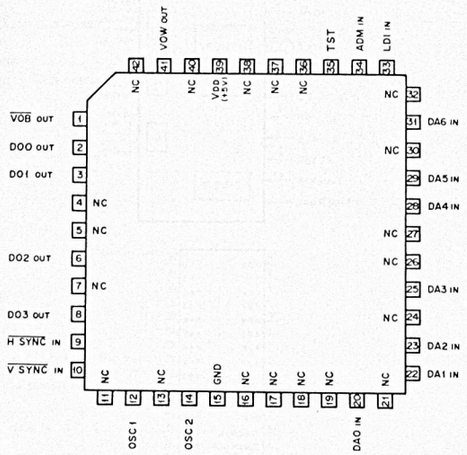
MC74HC86N (MOTOROLA)
TC74HC86P (TOSHIBA)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —



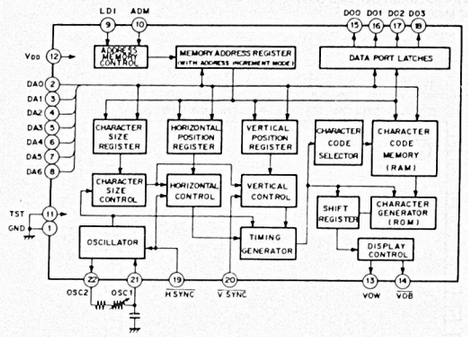
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

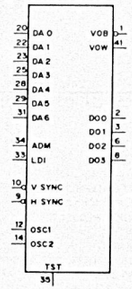
MN1237A (MATSUSHITA) FLAT PACKAGE
C-MOS INDICATES DATA OF 60 CHARACTERS CRT INTERFACE
— TOP VIEW —



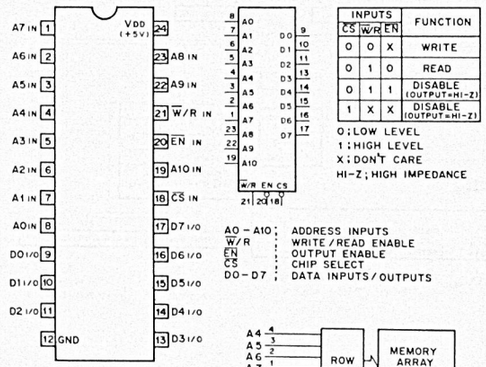
ADM	ADDRESS MODE SELECT IN
DA0~DA6	DATA BUS INPUT
DO0~DO3	GENERAL OUTPUT
H SYNC	H SYNC INPUT
V SYNC	V SYNC INPUT
LDI	STROBE PULSE INPUT
OSC1,2	OSC
TST	TEST
VOB	BACKGROUND OUTPUT
VOW	CHARACTERS OUTPUT



		DA5	DA4	DA3	DA2	DA1	DA0	
		0	0	0	1	1	0	
DA3	DA2	DA1	DA0					
0	0	0	0	A	N	0		
0	0	0	1	B	O	I		
0	0	1	0	C	P	2		
0	0	1	1	D	Q	3		
0	1	0	0	E	R	4		
0	1	0	1	F	S	5		
0	1	1	0	G	T	6		
0	1	1	1	H	U	7		
1	0	0	0	I	V	8		
1	0	0	1	J	W	9		
1	0	1	0	K	X	:		
1	0	1	1	L	Y	.		
1	1	0	0	M	Z	-		
1	1	0	1	·	?	/		
1	1	1	0	□	□	□		
1	1	1	1					



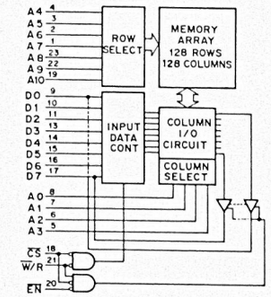
MSM5128-20GS (OKI) (ACCESS TIME = 200 nS) FLAT PACKAGE
TC5517AFL (TOSHIBA) (ACCESS TIME = 250 nS)
C-MOS 16384(2048x8)-BIT HIGH SPEED STATIC RAM
— TOP VIEW —



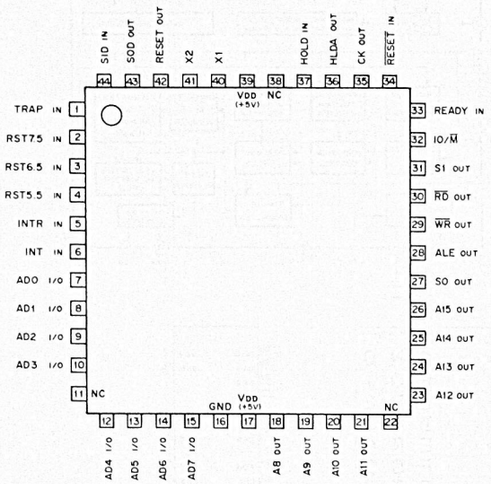
INPUTS			FUNCTION
CS	W/R	EN	
0	0	X	WRITE
0	1	0	READ
0	1	1	DISABLE (OUTPUT=HI-Z)
1	X	X	DISABLE (OUTPUT=HI-Z)

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

A0 - A10	ADDRESS INPUTS
W/R	WRITE/READ ENABLE
EN	OUTPUT ENABLE
CS	CHIP SELECT
DO - D7	DATA INPUTS/OUTPUTS

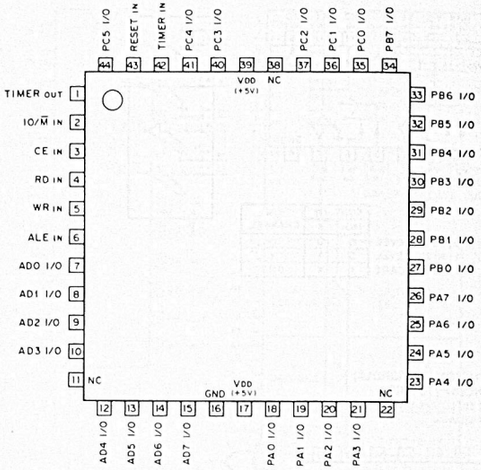


MSM80C85AGS (OKI) FLAT PACKAGE
C-MOS 8-BIT MICROPROCESSOR
— TOP VIEW —

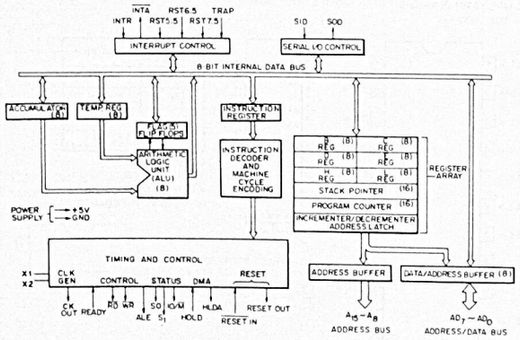


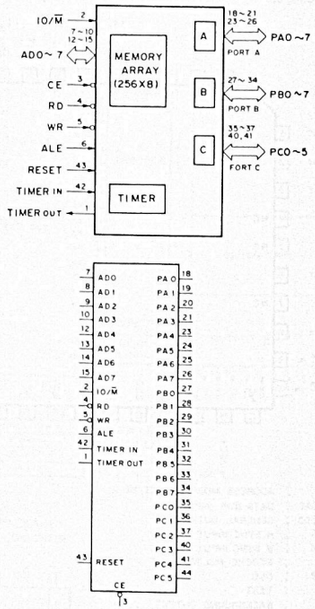
RST5.5,6.5,7.5 ; RESTART INTERRUPT
INTA ; INTERRUPT ACKNOWLEDGE
INTR ; INTERRUPT REQUEST
RD ; READ INPUT
WR ; WRITE INPUT
AD0~7 ; ADDRESS IN/DATA OUT BUS
A8~A15 ; ADDRESS BUS
SO,S1 ; DATA BUS STATUS
HLDA ; HOLD ACKNOWLEDGE
ALE ; ADDRESS LATCH ENABLE
IO/M ; I/O,MEMORY ENABLE
SOD ; SERIAL OUTPUT DATA
SID ; SERIAL INPUT DATA

MSM81C55GS (OKI) FLAT PACKAGE
C-MOS 2K (256x8) STATIC RAM WITH I/O PORTS and TIMER
— TOP VIEW —

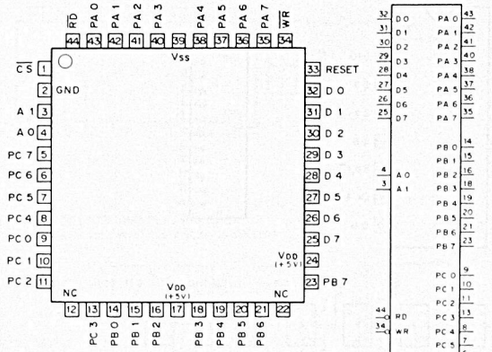


ALE ; ADDRESS LATCH ENABLE
CE ; CHIP ENABLE
RD ; READ INPUT
WR ; WRITE OUTPUT
AD0~7 ; ADDRESS IN/DATA OUT BUS
PA0~7, PB0~7 ; I/O PORT
PC0~5 ; I/O PORT/CONTROL
IO/M ; I/O, MEMORY ENABLE





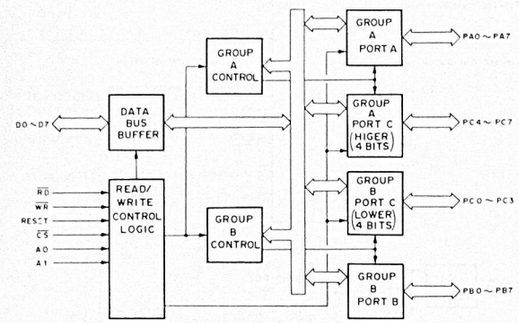
MSM82C55A-5GS (OKI) FLAT PACKAGE
C-MOS PROGRAMMABLE PERIPHERAL INTERFACE
— TOP VIEW —



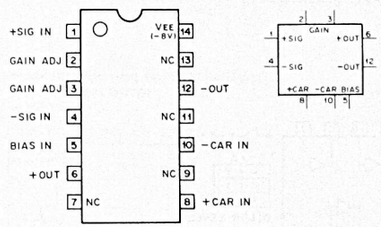
A1	A0	CS	WR	RD	OPERATION
0	0	0	1	0	PORT A → DATA BUS
0	1	0	1	0	PORT B → DATA BUS
1	0	0	1	0	PORT C → DATA BUS
1	1	0	1	0	NO OPERATION
0	0	0	0	1	DATA BUS → PORT A
0	1	0	0	1	DATA BUS → PORT B
1	0	0	0	1	DATA BAS → PORT C
1	1	0	0	1	DATA BUS → CONTROL REGISTER
X	X	1	X	X	HIGH IMPEDANCE

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

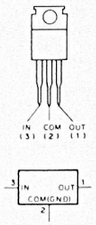
A0,A1 ; PORT SELECT ADDRESS
CS ; CHIP SELECT
D0~7 ; DATA BUS
PA0~7 ; PORT A IN/OUT
PB0~7 ; PORT B IN/OUT
PC0~7 ; PORT C IN/OUT
RD ; READ
WR ; WRITE



NJM1496M (JRC) FLAT PACKAGE
BALANCED MODULATOR/DEMODULATOR
— TOP VIEW —

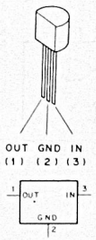


NJM78 ? ?K (JRC)
VOLTAGE REGULATOR (1A)
— SIDE VIEW —



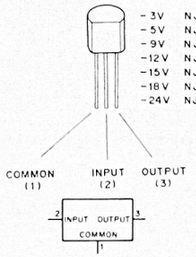
OUTPUT VOLTAGE	??
5V	05
6V	06
8V	08
9V	09
12V	12
15V	15
18V	18
20V	20
24V	24

NJM78L ? ?A (JRC)
POSITIVE VOLTAGE REGULATOR (40mA)



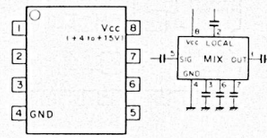
2V NJM78L02A
5V NJM78L05A
6V NJM78L06A
8V NJM78L08A
9V NJM78L09A
12V NJM78L12A
15V NJM78L15A

NJM79L ? ?A (JRC)
NEGATIVE VOLTAGE REGULATOR (40mA)
— FRONT VIEW —

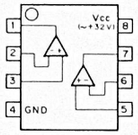


-3V NJM79L03A
-5V NJM79L05A
-9V NJM79L09A
-12V NJM79L12A
-15V NJM79L15A
-18V NJM79L18A
-24V NJM79L24A

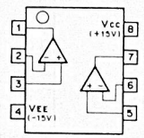
SN16913P (TI)
BALANCED MIXER
— TOP VIEW —



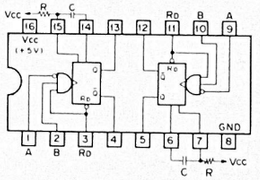
NJM4556D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —



NJM4560D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —



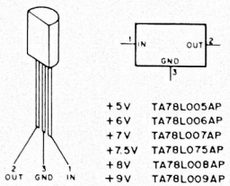
SN74LS123N (TI)
TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET
— TOP VIEW —



INPUTS			OUTPUTS	
Rd	A	B	Q	$\bar{Q}$
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↓	⎍	⎎
1	↓	1	⎍	⎎
1	0	1	⎍	⎎

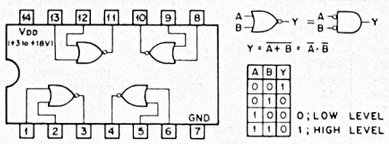
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TA78L? ??AP (TOSHIBA)
VOLTAGE REGULATOR



+5V TA78L005AP
+6V TA78L006AP
+7V TA78L007AP
+7.5V TA78L075AP
+8V TA78L008AP
+9V TA78L009AP
+10V TA78L010AP
+12V TA78L012AP
+13.2V TA78L132AP
+15V TA78L015AP
+18V TA78L018AP
+20V TA78L020AP
+24V TA78L024AP

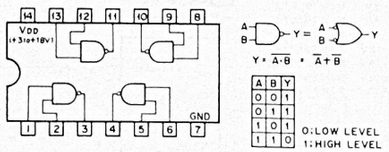
TC4001BF (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

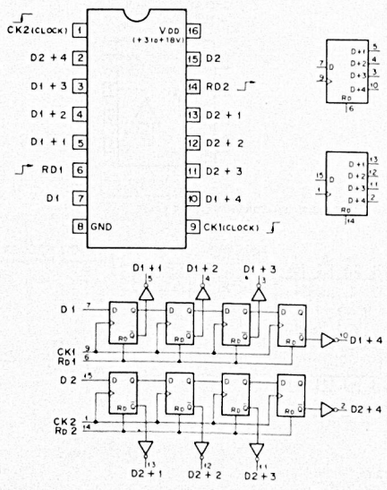
TC4011BF (TOSHIBA) FLAT PACKAGE
TC4011BP (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



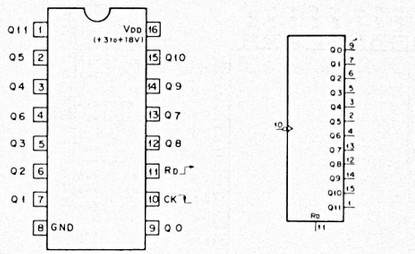
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

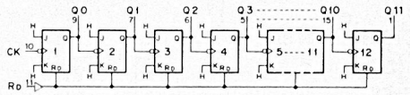
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC4015BF (TOSHIBA) FLAT PACKAGE
C-MOS DUAL 4-STAGE STATIC SHIFT REGISTER WITH DIRECT RESET
— TOP VIEW —



TC4040BF (TOSHIBA) FLAT PACKAGE
C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
— TOP VIEW —



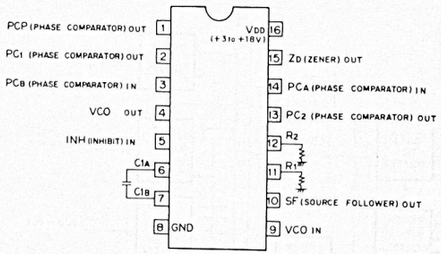


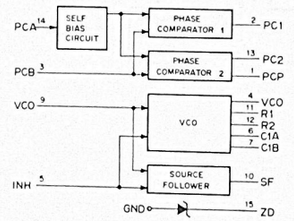
COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
⋮												
4095	1	1	1	1	1	1	1	1	1	1	1	1

RD	Q11 ····· Q0
1	ALL LOW
0	COUNT

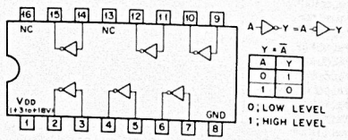
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC4046BP (TOSHIBA)
C-MOS PHASE LOCKED LOOP
— TOP VIEW —





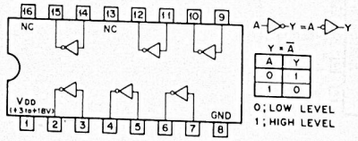
TC4049BF (TOSHIBA) FLAT PACKAGE
C-MOS INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



A	Y = A
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

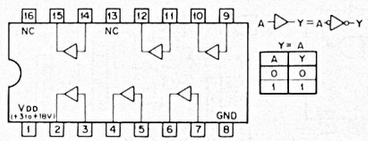
TC4049BP (TOSHIBA)
C-MOS INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



A	Y = A
0	1
1	0

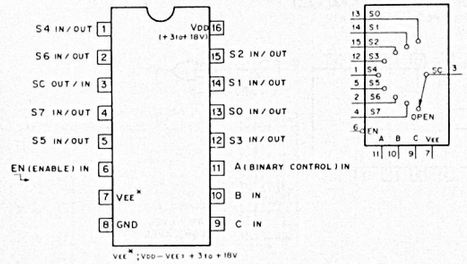
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC4050BF (TOSHIBA) FLAT PACKAGE
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



A	Y = A
0	0
1	1

TC4051BF (TOSHIBA) FLAT PACKAGE
C-MOS 8-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

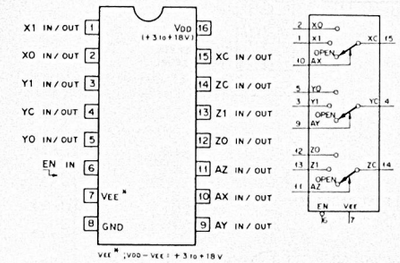


VEE* ; VDD − VEE = +3 to +18V

EN	C	B	A	"ON" CHANNEL
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC4053BF (TOSHIBA) FLAT PACKAGE
TC4053BP (TOSHIBA)
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

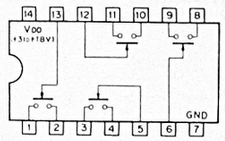


VEE* ; VDD − VEE = +3 to +18V

CONT INPUTS EN	A (X,Y,Z)	ON CHANNEL
0	0	0
0	1	1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

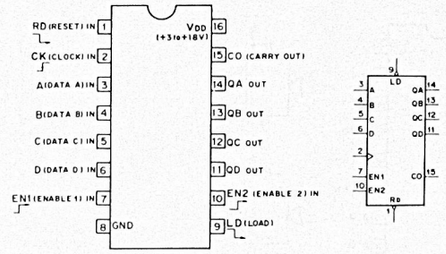
TC4066BF (TOSHIBA) FLAT PACKAGE
C-MOS BILATERAL SWITCH
— TOP VIEW —



CONT IN	SW
0	OFF
1	ON

0 ; LOW LEVEL
1 ; HIGH LEVEL

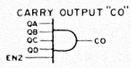
TC40163BP (TOSHIBA)
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
— TOP VIEW —



MODE SELECTION

CONTROL INPUTS RD	LD	EN1	EN2	MODE
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

CARRY OUTPUT "CO"

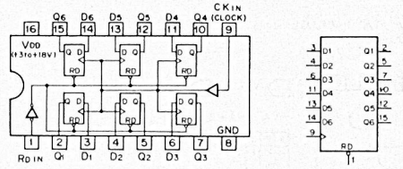


CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

COUNT SEQUENCE

COUNT	OUTPUTS QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

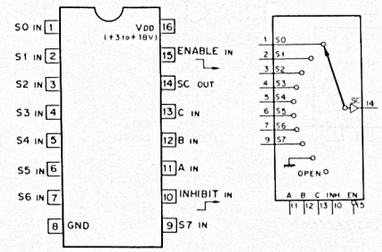
TC40174BF (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP
— TOP VIEW —



INPUTS CK	D	RD	OUTPUT Q
↑	0	1	0
↑	1	1	1
↓	X	1	Q0
X	X	0	0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

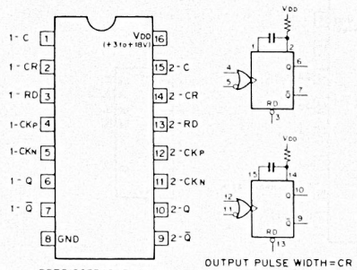
TC4512BF (TOSHIBA) FLAT PACKAGE
C-MOS 8-CHANNEL DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



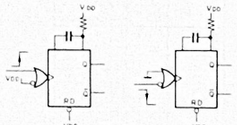
CONTROL INPUTS EN	INH	C	B	A	OUTPUT
0	0	0	0	0	S0
0	0	0	0	1	S1
0	0	0	1	0	S2
0	0	0	1	1	S3
0	0	1	0	0	S4
0	0	1	0	1	S5
0	0	1	1	0	S6
0	0	1	1	1	S7
0	1	X	X	X	GND
1	X	X	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

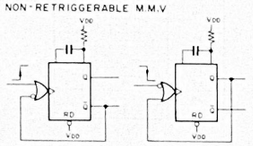
TC4538BP (TOSHIBA)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



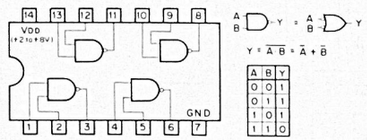
RETRIGGERABLE M.M.V



NON-RETRIGGERABLE M.M.V



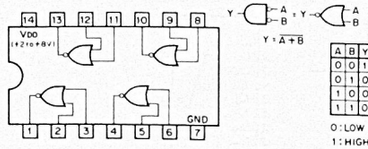
TC40H000F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0, LOW LEVEL
1, HIGH LEVEL

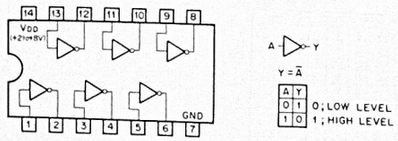
TC40H002F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0:LOW LEVEL
1:HIGH LEVEL

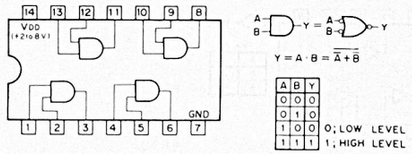
TC40H004F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER
— TOP VIEW —



A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

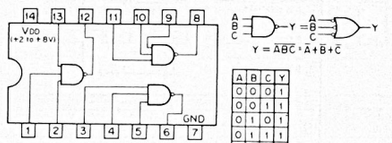
TC40H008F (TOSHIBA) FLAT PACKAGE
C-MOS 2-INPUT POSITIVE-AND GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

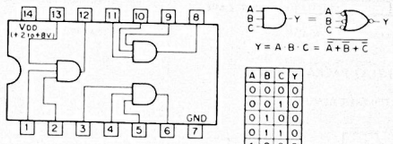
TC40H010F (TOSHIBA) FLAT PACKAGE
C-MOS 3-INPUT POSITIVE NAND GATE
— TOP VIEW —



A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

0 : LOW LEVEL
1 : HIGH LEVEL

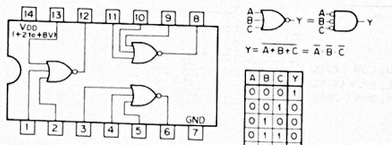
TC40H011F (TOSHIBA) FLAT PACKAGE
C-MOS 3-INPUT POSITIVE-AND GATE
— TOP VIEW —



A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

0;LOW LEVEL
1;HIGH LEVEL

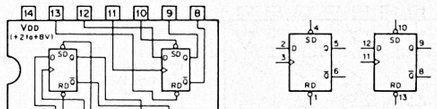
TC40H027F (TOSHIBA) FLAT PACKAGE
C-MOS 3-INPUT POSITIVE-NOR GATE
— TOP VIEW —



A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

0;LOW LEVEL
1;HIGH LEVEL

TC40H074F (TOSHIBA) FLAT PACKAGE
C-MOS HIGH SPEED D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



D-MODE

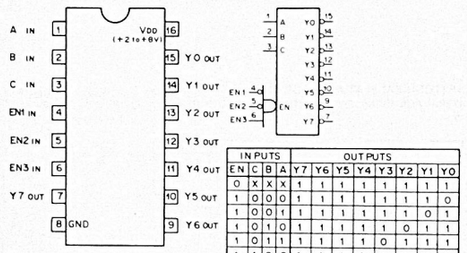
In	In + 1	
D	Q	Q̄
0	0	1
1	1	0

R-S MODE

INPUT		OUTPUT	
RD	SD	Q	Q̄
0	0	1	1
0	1	0	1
1	0	1	0
1	1	D-MODE	

0;LOW LEVEL
1;HIGH LEVEL

TC40H138F (TOSHIBA) FLAT PACKAGE
C-MOS 3-TO-8-LINE DECODER/DEMULTIPLEXER
— TOP VIEW —

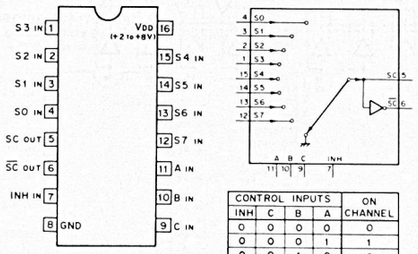


INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

EN = $\overline{EN1} \cdot \overline{EN2} \cdot EN3$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

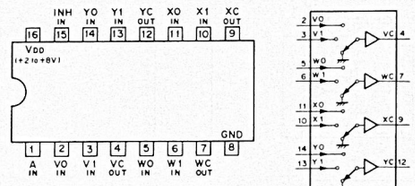
TC40H151F (TOSHIBA) FLAT PACKAGE
C-MOS 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



CONTROL INPUTS				ON
INH	C	B	A	CHANNEL
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	GND

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

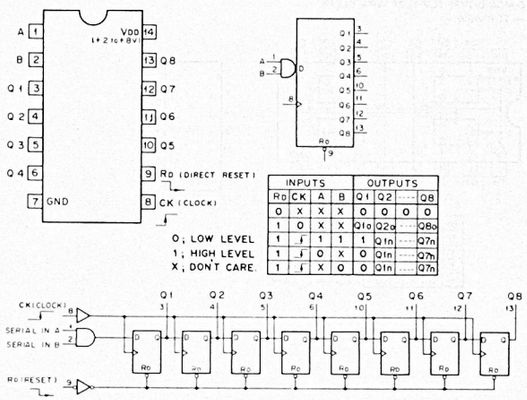
TC40H157F (TOSHIBA) FLAT PACKAGE
C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



CONT. IN		ON
INH	A	CHANNEL
0	0	0
0	1	1
1	X	GND

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

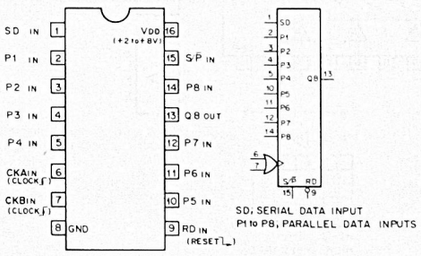
TC40H164F (TOSHIBA) FLAT PACKAGE
C-MOS 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER
— TOP VIEW —



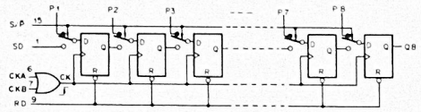
INPUTS				OUTPUTS		
RD	CK	A	B	Q1	Q2	····· Q8
0	X	X	X	0	0	0 0
1	0	X	X	Q1o	Q2o	····· Q8o
1	↑	1	1	1	Q1n	····· Q7n
1	↑	0	X	0	Q1n	····· Q7n
1	↑	X	0	0	Q1n	····· Q7n

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

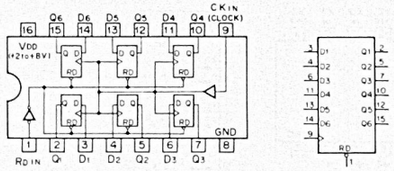
TC40H166F (TOSHIBA) FLAT PACKAGE
C-MOS 8-BIT SHIFT REGISTER
— TOP VIEW —



SD, SERIAL DATA INPUT
P1 to P8, PARALLEL DATA INPUTS



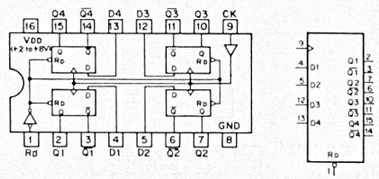
TC40H174F (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP
— TOP VIEW —



INPUTS			OUTPUT
CK	D	RD	Q
↓	0	1	0
↓	1	1	1
↑	X	1	Q0
X	X	0	0

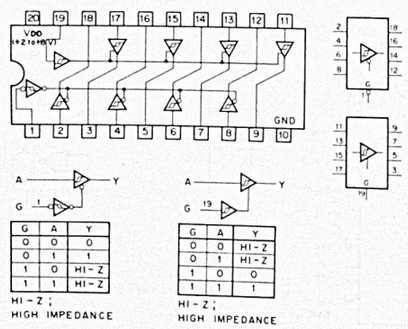
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC40H175F (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP WITH CLEAR
— TOP VIEW —

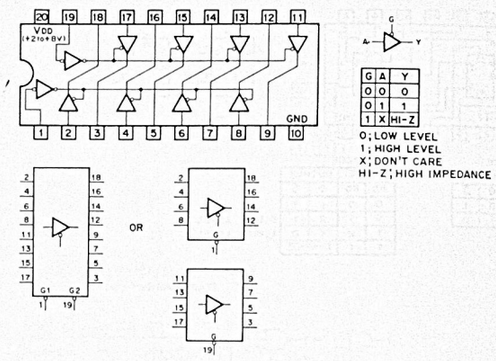


RD	CK	D	Q	Q̄	
0	X	X	0	1	
1	↓	1	1	0	0 ; LOW LEVEL
1	↓	0	0	1	1 ; HIGH LEVEL
1	0	X	Q0	Q̄0	X ; DON'T CARE

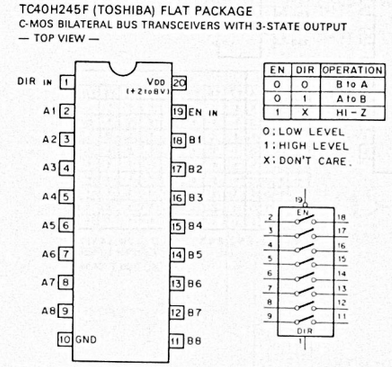
TC40H241F (TOSHIBA) FLAT PACKAGE
C-MOS 3-STATE SCHMITT TRIGGER BUFFER/LINE DRIVER
— TOP VIEW —



TC40H244F (TOSHIBA) FLAT PACKAGE
C-MOS 3-STATE BUFFER/DRIVER
— TOP VIEW —



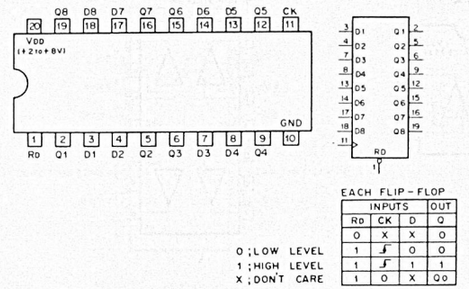
TC40H245F (TOSHIBA) FLAT PACKAGE
C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUT
— TOP VIEW —



EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.

TC40H273F (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP WITH DIRECT RESET
— TOP VIEW —

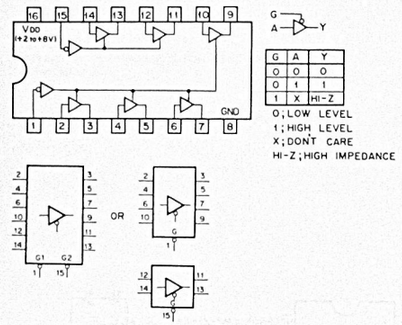


EACH FLIP-FLOP

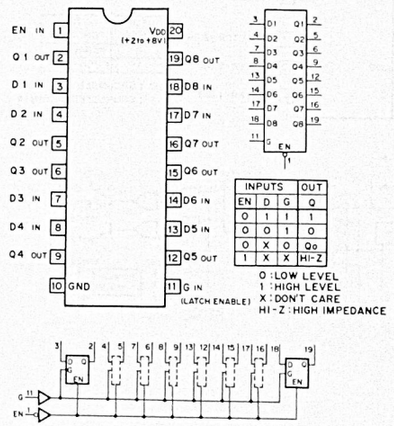
INPUTS			OUT
RD	CK	D	Q
0	X	X	0
1	↓	0	0
1	↓	1	1
1	0	X	Q0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

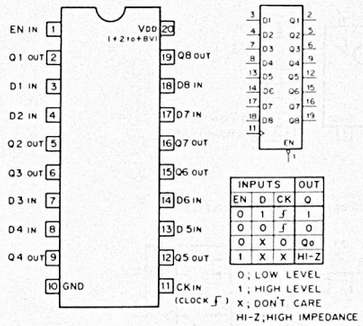
TC40H367F (TOSHIBA) FLAT PACKAGE
TC40H367P (TOSHIBA)
C-MOS BUS DRIVER WITH 3-STATE OUTPUTS
— TOP VIEW —



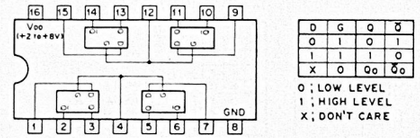
TC40H373F (TOSHIBA) FLAT PACKAGE
C-MOS 3-STATE OUTPUTS OCTAL LATCHES
— TOP VIEW —



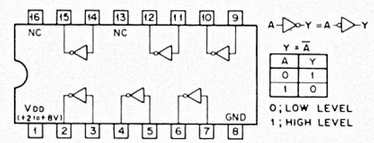
TC40H374F (TOSHIBA) FLAT PACKAGE
C-MOS 3-STATE OUTPUTS OCTAL D-TYPE FLIP-FLOP
— TOP VIEW —



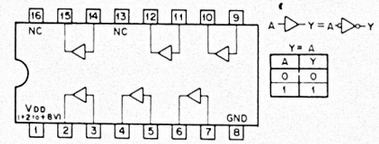
TC40H375F (TOSHIBA) FLAT PACKAGE
C-MOS BISTABLE LATCH
— TOP VIEW —



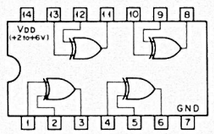
TC50H000F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



TC50H001F (TOSHIBA) FLAT PACKAGE
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —



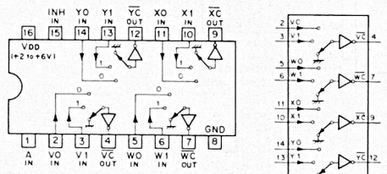
TC74HC86P (TOSHIBA)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

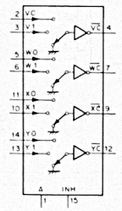


A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

TC74HC158P (TOSHIBA)
C-MOS 2-LINE-TO-1-LINE INVERTED DATA SELECTOR/MULTIPLEXER
— TOP VIEW —

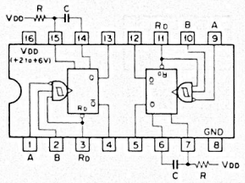




CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC74HC221P (TOSHIBA)
C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
— TOP VIEW —

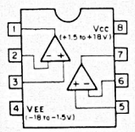


INPUTS			OUTPUTS	
RD	A	B	Q	Q̄
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⎍	⎍
1	↓	1	⎍	⎍
↑	0	1	⎍	⎍

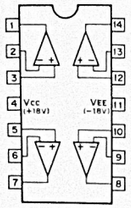
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR

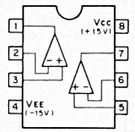
TL062CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(JFET INPUT)
— TOP VIEW —



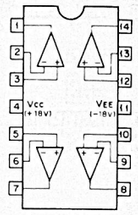
TL064CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



TL082CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —

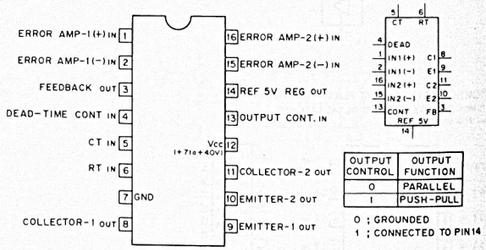


TL084CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



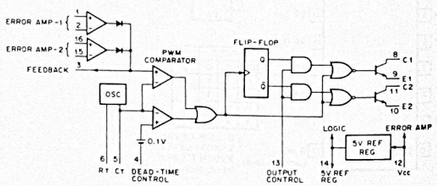
TL094CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —

TL494CN (TI)
PWM POWER CONTROL
— TOP VIEW —

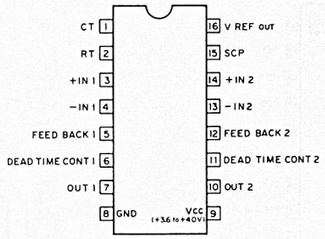


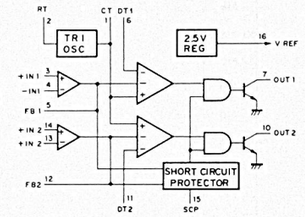
OUTPUT CONTROL	OUTPUT FUNCTION
0	PARALLEL
1	PUSH-PULL

0 ; GROUNDED
1 ; CONNECTED TO PIN14

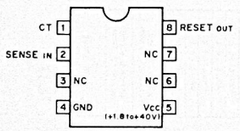


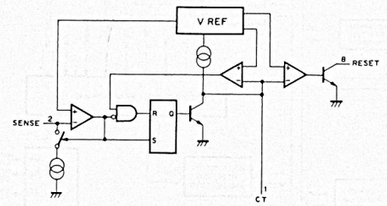
TL1451CNS (TI) FLAT PACKAGE
DUAL PWM POWER CONTROLLER
— TOP VIEW —



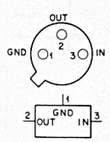


TL7700 CPS (TI)
VARIABLE SUPPLY VOLTAGE SUPERVISOR
— TOP VIEW —



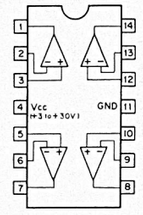


uA79M??AHC (FSC)
NEGATIVE VOLTAGE REGULATOR (0.5A)
— BOTTOM VIEW —

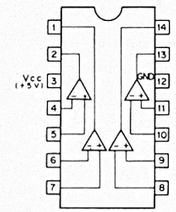


−5V	μA79M05AHC
−6V	μA79M06AHC
−8V	μA79M08AHC
−12V	μA79M12AHC
−15V	μA79M15AHC
−20V	μA79M20AHC
−24V	μA79M24AHC

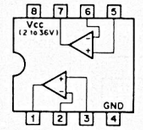
uPC324C (NEC)
QUAD. OP AMPLIFIER
— TOP VIEW —



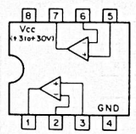
uPC339G2 (NEC) FLAT PACKAGE
COMPARATOR
— TOP VIEW —



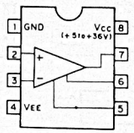
uPC393C (NEC)
uPC393G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —



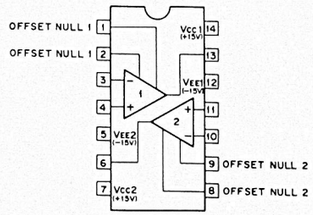
uPC358C (NEC)
uPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS
— TOP VIEW —



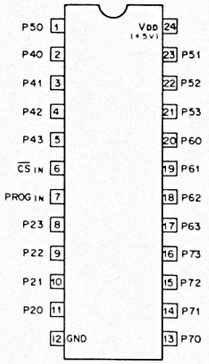
uPC311G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
— TOP VIEW —

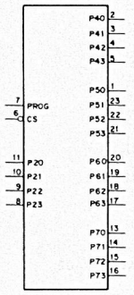


uPC454D (NEC)
OPERATIONAL AMPLIFIER
— TOP VIEW —



uPD82C43C (NEC)
C-MOS I/O PORT EXPANDER
— TOP VIEW —



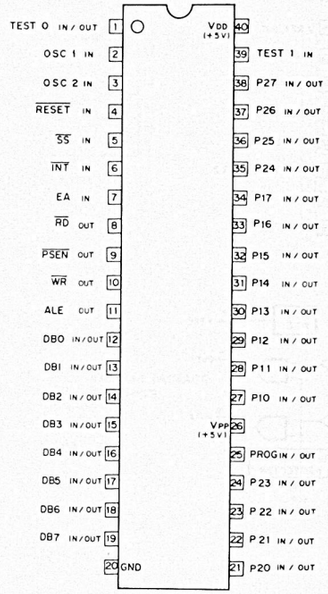


CONTROL AND PORT ADDRESSING

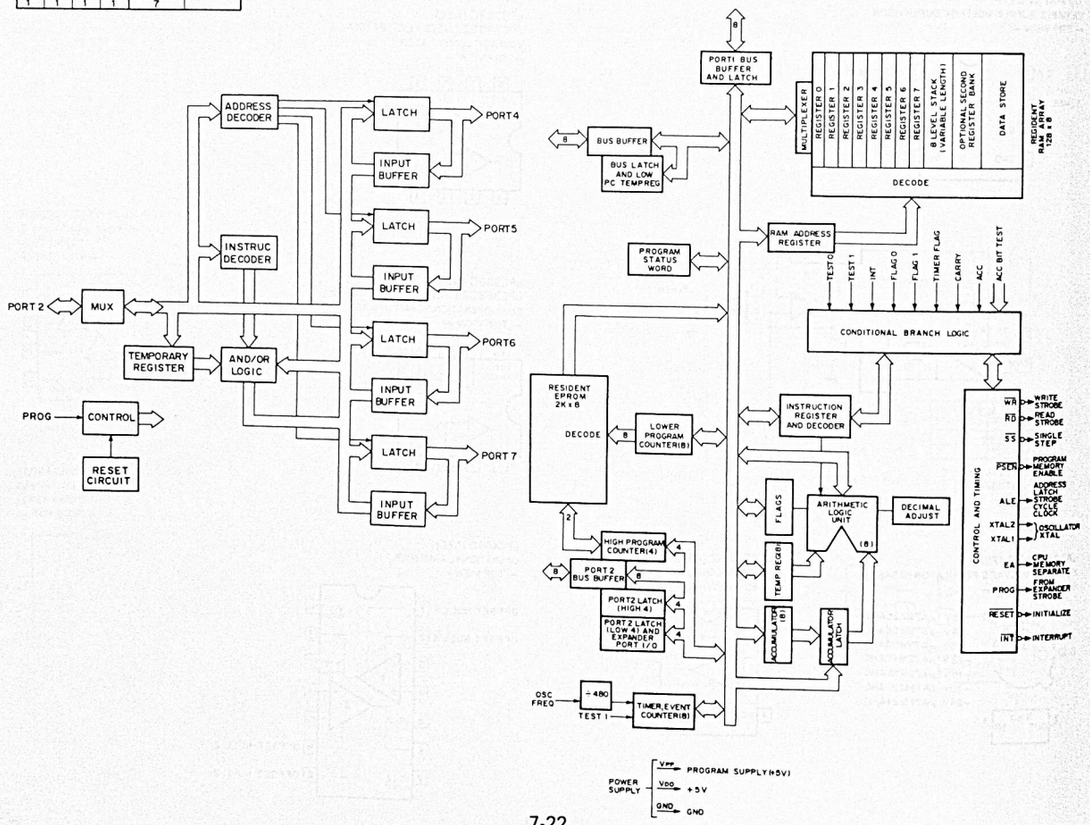
P23	P22	P21	P20	PORT	CONTROL
0	0	0	0	4	READ
0	0	0	1	5	
0	0	1	0	6	
0	0	1	1	7	
0	1	0	0	4	WRITE
0	1	0	1	5	
0	1	1	0	6	
0	1	1	1	7	
1	0	0	0	4	OR
1	0	0	1	5	
1	0	1	0	6	
1	0	1	1	7	
1	1	0	0	4	AND
1	1	0	1	5	
1	1	1	0	6	
1	1	1	1	7	

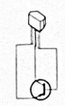
PROG; PROGRAM PULSE INPUT
$\overline{CS}$; CHIP SELECT INPUT
P20~P23; I/O PORT 2 (FOR CPU)
P40~P43; I/O PORT 4
P50~P53; I/O PORT 5
P60~P63; I/O PORT 6
P70~P73; I/O PORT 7

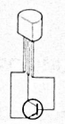
uPD8749HD (NEC)
N-MOS 8-BIT MICROPROCESSOR
— TOP VIEW —

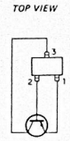


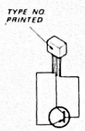
ALE; ADDRESS LATCH ENABLE
$\overline{PSEN}$; PROGRAM STORE ENABLE
$\overline{SS}$; SINGLE STEP
EA; EXTERNAL ACCESS
PROG; PROGRAM PULSE
$\overline{RD}$; READ
$\overline{WR}$; WRITE

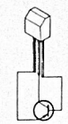


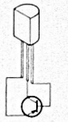

2SA1048
2SA1115

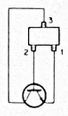

2SA1091


TOP VIEW
2SA1162
2SA1179
2SA1226
2SA812
2SB624
2SB815

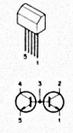

TYPE NO PRINTED
2SA1175

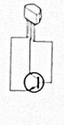

2SB733

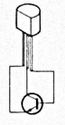

2SB739

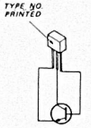

TOP VIEW
2SC1009A
2SC1623
2SC2712
2SC2715
2SC2757
2SC2812
2SD596

2SC1475
2SD789

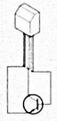

2SC2291

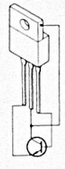

2SC2458
2SC2603
2SC3327

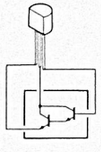

2SC2551
2SC641K

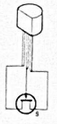

TYPE NO PRINTED
2SC2785

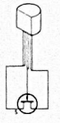
2SC3150

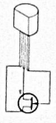

2SD773

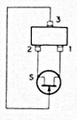

2SD1061

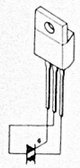

2SD1111

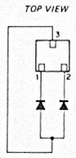

2SJ44

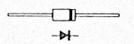

2SK125

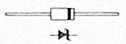

2SK152


TOP VIEW
2SK209
2SK300
2SK94

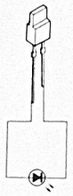

BCR10AM-10L

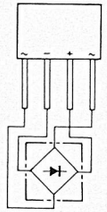

TOP VIEW
DAP202


ERB84-009

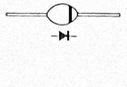

EQA02-???
EQB01-???
EQB02-???
RD 7?EB

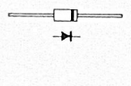
FC52M

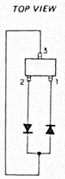

GL-9HY10; YELLOW

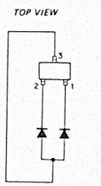

LB156

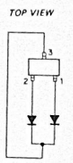
TLR109 ; RED

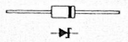

U05E
V09E


1N4148H
1S1555
1S2076
1S2348H
1S2473
1SS119
1SS133
1SS148
RH1A
US1035


TOP VIEW
1SS123
MA153


TOP VIEW
1S2835
MA152WA


TOP VIEW
1S2837
MA151WK


11D004
1SS88
1SS97
21D004
ERA81-004
ERB81-004
ERC81-004

SECTION 8
SPARE PARTS

8-1. PARTS INFORMATION

1. **Safety Related Component Warning**

   Components identified by shading and ⚠-mark on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in service bulletins and service manual supplements published by Sony.

2. Replace Parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to **"accomodating the improved parts and/or engineering changes"** or **"standardization of genuine parts"**.

   - This manual's exploded views and electrical spare parts list are indicating the parts numbers of "the standardized genuine parts at present".
   - Regarding engineering parts changes in our engineering department, refer Sony service bulletins and service manual supplements.

3. **Printed Components in Bold-Face type** on the exploded views and electrical spare parts list are normally stocked for replacement purposes. The remaining parts are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

4. Item with no part number and/or no description are not stocked because they are seldom required for routine service.

5. **Abbreviation**

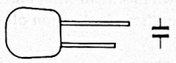
REF. NO.	DESCRIPTION	REF. NO.	DESCRIPTION	REF. NO.	DESCRIPTION
BL	BIAS LAMP	**IC**	IC	**RV**	VARIABLE RESISTOR
C	CAPACITOR	**L**	INDUCTOR	**RY**	RELAY
CN	CONNECTOR	**LV**	VARIABLE INDUCTOR	**S**	SWITCH
CV	VARIABLE CAPACITOR	**M**	FAN	**T**	TRANSFORMER
D	DIODE	**PL**	PILOT LAMP	**TH**	THERMISTOR
DL	DELAY LINE	**Q**	TRANSISTOR	**THP**	THERMISTOR (POSITIVE)
F	FUSE	**R**	RESISTOR	**TM**	TIMER
FL	FILTER	**RP**	RESISTOR BLOCK	**X**	OSCILLATOR

8-2. ELECTRICAL PARTS

CAPACITOR

Parts that are not listed in the "reference numbers order list" are shown in following table.
Reference numbers are omitted.

SILVERED MICA CAPACITOR



1 pF through 8.2 pF ±0.5 pF 500V
10 pF through 680 pF ±5% 500V
750 pF ±10% 500V

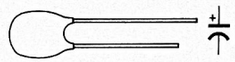
Parts No. 1-107-□□□-00

Value	Parts No. −□□□−	Value	Parts No. −□□□−	Value	Parts No. −□□□−	Value	Parts No. −□□□−
1 pF	019	12 pF	204	51 pF	164	220 pF	177
1.2	039	13	205	56	165	240	178
1.5	040	15	206	62	166	270	179
1.8	041	16	207	68	036	300	180
2.2	042	18	208	75	167	330	181
2.7	043	20	209	82	037	360	182
3.3	044	22	210	91	168	390	183
3.9	045	24	211	100	169	430	184
4.7	046	27	157	110	170	470	185
5.1	026	30	158	120	171	510	186
5.6	047	33	159	130	172	560	187
6.8	048	36	160	150	173	620	188
8.2	049	39	161	160	174	680	212
10	202	43	162	180	175	750	258
11	203	47	163	200	176		

CAPACITOR

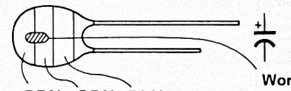
Parts that are not listed in the "reference numbers order list" are shown in following table.
Reference numbers are omitted.

TANTALUM CAPACITOR



0.01μF through 100μF ± 10%
3.15V through 35V

NOTE: The value of the parts that are marked by * in the below table are indicated by color code. (to the value with ±20%)



Ex. BRN GRN BLU
1 5 6
15 x 10^6 pF = 15μF

Working Voltage Color Code

BLK	RED	YEL	GRN	BLU	GRY	WHT
10V	35	6.3	16	20	25	3.15

Parts No. 1-131-□□□-00

Value		Parts No. −□□□−
0.01μ	35V	*396
0.015	35	*397
0.022	35	*398
0.033	35	*399
0.047	35	*400
0.068	35	*401
0.1	35	*402
0.15	35	*403
0.22	35	*404
0.33	25	*409
	35	*405
0.47	20	*412
	35	*406
0.68	16	*415
	25	*410
	35	*407
1.0	10	*418
	20	*413

Value		Parts No. −□□□−
1.0μ	35V	*408
1.5	6.3	*421
	16	*416
	25	*411
	35	348
2.2	3.15	*424
	10	*419
	20	*414
	25	355
	35	349
3.3	6.3	*422
	16	*417
	20	362
	25	356
	35	350
4.7	3.15	*425
	10	*420
	16	369

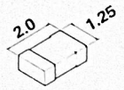
Value		Parts No. −□□□−
4.7μ	20V	363
	25	357
	35	351
6.8	6.3	*423
	10	376
	16	370
	20	364
	25	358
	35	352
10	3.15	*426
	6.3	383
	10	377
	16	371
	20	365
	25	359
	35	353
15	3.15	390
	6.3	384

Value		Parts No. −□□□−
15μ	10V	378
	16	372
	20	366
	25	360
22	3.15	391
	6.3	385
	10	379
	16	373
	20	367
33	3.15	392
	6.3	386
	10	380
	16	374
47	3.15	393
	6.3	387
	10	381
68	3.15	394
	6.3	388
100	3.15	395

CAPACITOR

Parts that are not listed in the "reference numbers order list " are shown in following table.
Reference numbers are omitted.

CHIP CERAMIC CAPACITOR



220pF through 0.018μF(B) ± 10% 50WV
0.022μF through 0.068μF(F) $^{+80}_{-20}$ % 50WV
0.1μF(F) $^{+80}_{-20}$ % 25WV

Parts No. 1-163-□□□-00

Value	Parts No. – □□□ –
100pF	—
120	—
150	—
180	—
220	001
270	002
330	003
390	004
470	005
560	006
680	007
820	008

Value	Parts No. – □□□ –
0.001μF	009
0.0012	010
0.0015	011
0.0018	012
0.0022	013
0.0027	014
0.0033	015
0.0039	016
0.0047	017
0.0056	018
0.0068	019
0.0082	020

Value	Parts No. – □□□ –
0.01μF	021
0.012	022
0.015	023
0.018	024
0.022	033
0.027	—
0.033	034
0.039	—
0.047	035
0.056	—
0.068	036
0.082	—
0.1	038

INDUCTOR

Parts that are not listed in the "reference numbers order list" are shown in following table.
Reference numbers are omitted.

MICRO INDUCTOR — 1 μH through 470 μH ±5%

Parts No. 1-408-□□□-□□

Value	Parts No. –□□□–
1 μH	397
1.2	398
1.5	399
1.8	400
2.2	401
2.7	402
3.3	403
3.9	404

Value	Parts No. –□□□–
4.7 μH	405
5.6	406
6.8	407
8.2	408
10	409
12	410
15	411
18	412

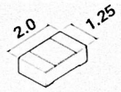
Value	Parts No. –□□□–
22 μH	413
27	414
33	415
39	416
47	417
56	418
68	419
82	420

Value	Parts No. –□□□–
100 μH	421
120	422
150	423
180	424
220	425
270	426
330	427
390	428
470	429

RESISTOR

Parts that are not listed in the "reference numbers order list" are shown in following table.
Reference numbers are omitted.

CHIP RESISTOR



±5% 1/10W
0Ω through 3.3MΩ

Parts No. 1-216-□□□-00

Value	Parts No. – □□□ –
0Ω	295
1Ω	—
1.1	—
1.2	—
1.3	—
1.5	—
1.6	—
1.8	—
2	—
2.2	298
2.4	301
2.7	302
3	303
3.3	304
3.6	305
3.9	306
4.3	307
4.7	308
5.1	297
5.6	309
6.2	310
6.8	311
7.5	312
8.2	313
9.1	314
10Ω	001
11	002
12	003
13	004
15	005
16	006
18	007
20	008
22	009
24	010
27	011

Value	Parts No. – □□□ –
30	012
33Ω	013
36	014
39	015
43	016
47	017
51	018
56	019
62	020
68	021
75	022
82	023
91	024
100Ω	025
110	026
120	027
130	028
150	029
160	030
180	031
200	032
220	033
240	034
270	035
300	036
330	037
360	038
390	039
430	040
470	041
510	042
560	043
620	044
680	045
750	046
820	047

Value	Parts No. – □□□ –
910	048
1kΩ	049
1.1	050
1.2	051
1.3	052
1.5	053
1.6	054
1.8	055
2	056
2.2	057
2.4	058
2.7	059
3	060
3.3	061
3.6	062
3.9	063
4.3	064
4.7	065
5.1	066
5.6	067
6.2	068
6.8	069
7.5	070
8.2	071
9.1	072
10kΩ	073
11	074
12	075
13	076
15	077
16	078
18	079
20	080
22	081
24	082
27	083

Value	Parts No. – □□□ –
30	084
33kΩ	085
36	086
39	087
43	088
47	089
51	090
56	091
62	092
68	093
75	094
82	095
91	096
100kΩ	097
110	098
120	099
130	100
150	101
160	102
180	103
200	104
220	105
240kΩ	106
270	107
300	108
330	109
360	110
390	111
430	112
470	113
510	114
560	115
620	116
680	117
750	118
820	119

Value	Parts No. – □□□ –
910	120
1MΩ	121
1.1	122
1.2	123
1.3	124
1.5	125
1.6	126
1.8	127
2	128
2.2	129
2.4	130
2.7	131
3	132
3.3	133

CARBON RESISTOR (1/6W)

±5%, 1/6W, non-special type
2.2Ω through 1MΩ

Parts No. 1-247-□□□-00

Value	Parts No. –□□□–
1Ω	–
1.1	–
1.2	–
1.3	–
1.5	–
1.6	–
1.8	–
2	–
2.2	767
2.4	768
2.7	769
3	770
3.3	771
3.6	772
3.9	773
4.3	774
4.7	775
5.1	776
5.6	777
6.2	778
6.8	779
7.5	780
8.2	781
9.1	782
10Ω	783
11	784
12	785
13	786
15	787
16	788
18	789
20	790
22	791
24	792
27	793
30	794
33	795

Value	Parts No. –□□□–
36Ω	796
39	797
43	798
47	799
51	800
56	801
62	802
68	803
75	804
82	805
91	806
100Ω	807
110	808
120	809
130	810
150	811
160	812
180	813
200	814
220	815
240	816
270	817
300	818
330	819
360	820
390	821
430	822
470	823
510	824
560	825
620	826
680	827
750	828
820	829
910	830
1kΩ	831
1.1	832

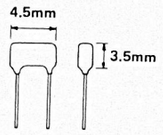
Value	Parts No. –□□□–
1.2kΩ	833
1.3	834
1.5	835
1.6	836
1.8	837
2	838
2.2	839
2.4	840
2.7	841
3	842
3.3	843
3.6	844
3.9	845
4.3	846
4.7	847
5.1	848
5.6	849
6.2	850
6.8	851
7.5	852
8.2	853
9.1	854
10kΩ	855
11	856
12	857
13	858
15	859
16	860
18	861
20	862
22	863
24	864
27	865
30	866
33	867
36	868
39	869

Value	Parts No. –□□□–
43kΩ	870
47	871
51	872
56	873
62	874
68	875
75	876
82	877
91	878
100kΩ	879
110	880
120	881
130	882
150	883
160	884
180	885
200	886
220	887
240	888
270	889
300	890
330	891
360	892
390	893
430	894
470	895
510	896
560	897
620	898
680	899
750	900
820	901
910	902
1MΩ	903

RESISTOR

Parts that are not listed in the "reference numbers order list" are shown in following table.
Reference numbers are omitted.

METAL FILM RESISTOR



± 1%, 1/8W

Parts No. 1-214-□□□-00 (10Ω through 33kΩ)
Parts No. 1-215-□□□-11 (36kΩ through 100kΩ)

Value	Parts No. −□□□−
10Ω	509
11	510
12	511
13	512
15	513
16	514
18	515
20	516
22	517
24	518
27	519
30	520
33	521
36	522
39	523
43	524
47	525
51	526
56	527
62	528
68	529
75	530
82	531
91	532

Value	Parts No. −□□□−
100Ω	533
110	534
120	535
130	536
150	537
160	538
180	539
200	540
220	541
240	542
270	543
300	544
330	545
360	546
390	547
430	548
470	549
510	550
560	551
620	552
680	553
750	554
820	555
910	556

Value	Parts No. −□□□−
1.0kΩ	557
1.1	558
1.2	559
1.3	560
1.5	561
1.6	562
1.8	563
2.0	564
2.2	565
2.4	566
2.7	567
3.0	568
3.3	569
3.6	570
3.9	571
4.3	572
4.7	573
5.1	574
5.6	575
6.2	576
6.8	577
7.5	578
8.2	579
9.1	580

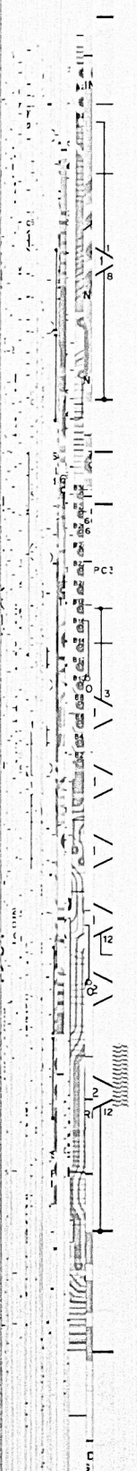
Value	Parts No. −□□□−
10kΩ	581
11	582
12	583
13	584
15	585
16	586
18	587
20	588
22	589
24	590
27	591
30	592
33	593

36kΩ	819
39	820
43	821
47	822
51	823
56	824
62	825
68	826
75	827
82	828
91	829
100	830

AB-4/4P BOARD

Ref. No.	Parts No.	Description
	A-7513-127-A	MOUNTED CIRCUIT BOARD "AB-4" (NTSC)
	A-7513-277-A	MOUNTED CIRCUIT BOARD "AB-4P" (PAL)
	1-560-707-00	POLARISING KEY
CN1	1-564-852-11	RECEPTACLE, 60P MALE
C3	1-123-382-00	ELECT 3.3 20% 100V
C4	1-123-617-00	ELECT 10 20% 16V
C5	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C9	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C10	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C17	1-163-249-00	CERAMIC CHIP 82PF 5% 50V
C18	1-163-255-00	CERAMIC CHIP 150PF 5% 50V
C20	1-163-235-00	CERAMIC CHIP 22PF 5% 50V
C21	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C24	1-123-384-00	ELECT 10 20% 100V
C27	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C28	1-163-235-00	CERAMIC CHIP 22PF 5% 50V
C29	1-102-936-00	CERAMIC 3PF 0.5PF 50V
C31	1-102-936-00	CERAMIC 3PF 0.5PF 50V
C33	1-102-936-00	CERAMIC 3PF 0.5PF 50V
C37	1-123-613-00	ELECT 3.3 20% 50V
C38	1-163-263-00	CERAMIC CHIP 330PF 5% 50V
C39	1-161-486-00	CERAMIC 0.1 10% 100V
C40	1-163-263-00	CERAMIC CHIP 330PF 5% 50V
C41	1-123-619-00	ELECT 4.7 20% 50V
C42	1-161-486-00	CERAMIC 0.1 10% 100V
C43	1-123-607-00	ELECT 0.1 20% 50V
C53	1-123-382-00	ELECT 3.3 20% 100V
D2	8-719-104-22	1SS123
D3	8-719-104-22	1SS123
D4	8-719-104-22	1SS123
D5	8-719-104-22	1SS123
D6	8-719-104-22	1SS123
D7	8-719-104-22	1SS123

Ref. No.	Parts No.	Description
IC1	8-741-105-40	BX1054: SONY
IC2	8-741-105-40	BX1054: SONY
IC3	8-741-105-40	BX1054: SONY
IC4	8-759-132-40	μPC324C: NEC
IC5	8-759-132-40	μPC324C: NEC
IC6	8-741-136-90	BX1369: SONY
IC7	8-741-136-90	BX1369: SONY
IC8	8-741-136-90	BX1369: SONY
IC9	8-752-320-11	CXL5001P: SONY
IC10	8-741-136-90	BX1369: SONY
Q1	8-729-100-66	2SC1623
Q2	8-729-100-66	2SC1623
Q3	8-729-122-63	2SA1226
Q4	8-729-122-63	2SA1226
Q5	8-729-100-76	2SA812
Q6	8-729-175-73	2SC2757
Q7	8-729-175-73	2SC2757
Q8	8-729-100-76	2SA812
Q9	8-729-122-63	2SA1226
Q10	8-729-100-66	2SC1623
Q11	8-729-100-76	2SA812
Q12	8-729-109-44	2SK94
Q13	8-729-100-76	2SA812
Q14	8-729-100-66	2SC1623
Q15	8-729-100-66	2SC1623
Q16	8-729-100-76	2SA812
Q17	8-729-100-76	2SA812
Q18	8-729-100-76	2SA812
Q19	8-729-100-76	2SA812
Q20	8-729-100-76	2SA812
RV1	1-228-459-00	METAL 10K
RV2	1-228-459-00	METAL 10K
RV3	1-228-459-00	METAL 10K
RV4	1-224-932-00	METAL 50K
RV5	1-224-932-00	METAL 50K
RV6	1-224-932-00	METAL 50K
RV7	1-224-933-00	METAL 100K
RV8	1-224-933-00	METAL 100K
RV9	1-224-933-00	METAL 100K
RV10	1-224-933-00	METAL 100K
RV11	1-224-933-00	METAL 100K
RV12	1-224-933-00	METAL 100K
RV13	1-226-278-00	METAL 20



Ref. No.	Parts No.	Description
S1	1-553-439-00	TOGGLE
S2	1-553-439-00	TOGGLE
S3	1-554-076-00	SLIDE
X1	1-567-155-11	10.738635MHz (NTSC)
X2	1-567-155-21	10.6MHz (PAL)

AT-27 BOARD

	1-560-707-00	POLARISING KEY
C5	1-125-390-11	DOUBLE LAYERS 0.047F +80% −20% 5.5V
C25	1-163-259-00	CERAMIC CHIP 220PF 5% 50V
C32	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C33	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C34	1-163-235-00	CERAMIC CHIP 22PF 5% 50V
C35	1-163-235-00	CERAMIC CHIP 22PF 5% 50V
C37	1-163-235-00	CERAMIC CHIP 22PF 5% 50V
C38	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C39	1-163-263-00	CERAMIC CHIP 330PF 5% 50V
C42	1-163-235-00	CERAMIC CHIP 22PF 5% 50V
C43	1-124-140-00	ELECT 220 20% 10V
C44	1-124-135-00	ELECT 470 20% 6.3V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
CN2	1-506-545-11	RECEPTACLE, 12P MALE
CN3	1-562-772-11	RECEPTACLE, 12P FEMALE
CN4	1-562-773-11	RECEPTACLE, 40P FEMALE
CN5	1-561-773-00	RECEPTACLE, 42P FEMALE
D1	8-719-100-03	1S2835
D2	8-719-156-07	RD5.6EB
D3	8-719-815-55	1S1555
D4	8-719-815-55	1S1555
D5	8-719-815-55	1S1555
D6	8-719-815-55	1S1555
D7	8-719-815-55	1S1555
D8	8-719-815-55	1S1555
D9	8-719-815-55	1S1555
D10	8-719-815-55	1S1555
D11	8-719-100-03	1S2835
D12	8-719-100-03	1S2835
D13	8-719-100-03	1S2835
D14	8-719-100-03	1S2835
D15	8-719-100-03	1S2835
D16	8-719-100-03	1S2835
IC1	8-759-201-53	TC40H000F: TOSHIBA
IC2	8-759-201-53	TC40H000F: TOSHIBA
IC3	8-759-200-99	TC4051BF: TOSHIBA
IC4	8-759-200-99	TC4051BF: TOSHIBA
IC5	8-759-906-54	TL064CNS: TI
IC6	8-759-906-54	TL064CNS: TI
IC7	8-759-204-83	TC40H245F: TOSHIBA
IC8	8-759-201-61	TC40H004F: TOSHIBA
IC9	8-759-204-59	TC40H138F: TOSHIBA
IC10	8-759-204-59	TC40H138F: TOSHIBA
IC11	8-759-910-35	MSM82C55A-5GS: OKI
IC12	8-759-910-35	MSM82C55A-5GS: OKI
IC13	8-759-204-91	TC40H375F: TOSHIBA
IC14	8-759-204-89	TC40H373F: TOSHIBA
IC15	8-759-204-40	TC40H027F: TOSHIBA
IC16	8-759-201-64	TC40H074F: TOSHIBA
IC17	8-759-201-64	TC40H074F: TOSHIBA
IC18	8-759-204-87	TC40H367F: TOSHIBA
IC19	8-759-918-65	TL7700CPS: TI
IC20	8-759-918-59	MSM80C85AGS-K: OKI
IC21	8-759-204-89	TC40H373F: TOSHIBA
IC22	8-759-303-19	HM6264LFP-15: HITACHI
IC23	8-759-746-63	MBM27C256-25: FUJITSU
IC24	8-759-204-66	TC40H157F: TOSHIBA
IC25	8-759-746-16	MBM27C64-25: FUJITSU
IC26	8-759-101-12	μPC311G2: NEC
IC27	8-759-204-66	TC40H157F: TOSHIBA
IC28	8-759-204-91	TC40H375F: TOSHIBA
IC29	8-759-201-60	TC40H002F: TOSHIBA
IC30	8-759-402-31	MN1237A: MATSUSHITA

Ref. No.	Parts No.	Description
Q1	8-729-100-66	2SC1623
Q2	8-728-100-66	2SC1623
Q3	8-729-162-44	2SB624-BV4
Q4	8-729-200-66	2SC1623
RV1	1-228-457-00	METAL 2K
S1	1-553-439-00	TOGGLE
S2	1-553-439-00	TOGGLE
S3	1-554-076-00	SLIDE
X1	1-567-155-11	10.738635MHz
IC3	8-759-204-93	TC50H001F: TOSHIBA
IC4	8-759-918-58	CX7971: SONY
IC5	8-759-201-61	TC40H004F: TOSHIBA
IC6	8-759-910-36	MSM5128-20GS: OKI
IC7	8-759-910-36	MSM5128-20GS: OKI
IC8	8-759-910-36	MSM5128-20GS: OKI
IC9	8-759-910-36	MSM5128-20GS: OKI
IC10	8-759-204-83	TC40H245F: TOSHIBA
IC11	8-759-204-83	TC40H245F: TOSHIBA
IC12	8-759-204-83	TC40H245F: TOSHIBA
IC13	8-759-204-83	TC40H245F: TOSHIBA
IC14	8-759-918-28	AD7545JN: ANALOG DEVICES
IC15	8-759-918-28	AD7545JN: ANALOG DEVICES
IC16	8-759-914-01	AD7524JN: ANALOG DEVICES
IC17	8-759-914-01	AD7524JN: ANALOG DEVICES
IC18	8-759-908-92	TL084CNS: TI
IC19	8-759-908-92	TL084CNS: TI
IC20	8-759-204-79	TC40H241F: TOSHIBA
IC21	8-759-204-79	TC40H241F: TOSHIBA
IC22	8-759-204-79	TC40H241F: TOSHIBA
IC23	8-759-204-82	TC40H244F: TOSHIBA
IC24	8-759-204-82	TC40H244F: TOSHIBA
IC25	8-759-204-90	TC40H374F: TOSHIBA
IC26	8-759-204-75	TC40H175F: TOSHIBA
IC27	8-759-204-59	TC40H138F: TOSHIBA
IC28	8-759-201-53	TC40H000F: TOSHIBA
IC29	8-759-201-64	TC40H074F: TOSHIBA
IC30	8-759-201-64	TC40H074F: TOSHIBA
IC31	8-759-204-89	TC40H373F: TOSHIBA
IC32	8-759-204-51	TC40H008F: TOSHIBA
IC33	8-759-204-51	TC40H008F: TOSHIBA
IC34	8-759-204-72	TC40H164F: TOSHIBA

AT-28 BOARD

C13	1-163-105-00	CERAMIC CHIP 33PF 5% 50V
C14	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C15	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C18	1-163-105-00	CERAMIC CHIP 33PF 5% 50V
C19	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C20	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C22	1-163-105-00	CERAMIC CHIP 33PF 5% 50V
C23	1-163-247-00	CERAMIC CHIP 100PF 5% 50V
C25	1-163-105-00	CERAMIC CHIP 33PF 5% 50V
C26	1-163-247-00	CERAMIC CHIP 100PF 5% 50V
C27	1-163-259-00	CERAMIC CHIP 220PF 5% 50V
C31	1-102-114-00	CERAMIC 470PF 10% 50V
C32	1-102-108-00	CERAMIC 150PF 10% 50V
C33	1-102-114-00	CERAMIC 470PF 10% 50V
C34	1-102-108-00	CERAMIC 150PF 10% 50V
CN1	1-564-850-11	RECEPTACLE, 40P MALE
CN2	1-564-849-11	RECEPTACLE, 12P MALE
D1	8-719-102-68	RD5.1EN2
D2	8-719-104-26	1S2837
D4	8-719-104-24	1S2835
Q1	8-729-109-44	2SK94
Q2	8-729-109-44	2SK94
S1	1-553-439-00	TOGGLE

AT-29 BOARD

Ref. No.	Parts No.	Description
	1-535-581-11	PIN, PC BOARD
	1-560-707-00	POLARISING KEY
C12	1-163-247-00	CERAMIC CHIP 68PF 5% 50V
C13	1-130-495-00	MYLAR 0.1 5% 50V
C23	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C25	1-130-479-00	MYLAR 4700PF 5% 50V
C33	1-124-139-00	ELECT 100 20% 10V
C36	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C38	1-163-259-00	CERAMIC CHIP 220PF 5% 50V
C39	1-163-259-00	CERAMIC CHIP 220PF 5% 50V
C42	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C57	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C58	1-123-620-00	ELECT 10 20% 25V
C61	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C62	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C63	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C64	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C65	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C66	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C68	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C69	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C70	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C71	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C72	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C73	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C74	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C76	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C78	1-161-470-00	CERAMIC 820PF 5% 50V
C79	1-161-469-00	CERAMIC 680PF 5% 50V
C81	1-161-458-00	CERAMIC 82PF 5% 50V
C84	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
CN2	1-506-545-11	RECEPTACLE, 12P MALE
	1-562-901-11	PLUG HOUSING 12P
CN3	1-564-856-11	RECEPTACLE, 42P MALE
	1-562-890-11	PLUG HOUSING 42P

Ref. No.	Parts No.	Description
D1	8-719-101-23	1SS123
D2	8-719-101-34	RD3.0EL1
D3	8-719-101-60	RD6.2EL1
D4	8-719-100-05	1S2837
D5	8-719-800-25	TLR109A
D6	8-719-101-23	1SS123
D7	8-719-815-55	1S1555
D8	8-719-104-22	1SS123
D9	8-719-100-05	1S2837
D10	8-719-101-98	1SS97
D11	8-719-101-57	RD5.6EL1
D12	8-719-100-03	1S2835
D13	8-719-100-03	1S2835
D14	8-719-100-03	1S2835
D15	8-719-101-57	RD5.6EL1
D16	8-719-100-03	1S2835
D17	8-719-100-03	1S2835
D18	8-719-100-05	1S2837
D19	8-719-100-05	1S2837
D20	8-719-100-05	1S2837
D21	8-719-100-05	1S2837
D22	8-719-100-05	1S2837
D23	8-719-101-97	1SS97-1
D30	8-719-100-05	1S2837
DL1	1-415-345-00	110nS
IC1	8-759-200-81	TC4053BF: TOSHIBA
IC2	8-759-969-13	SN16913P: TI
IC3	8-759-906-54	TL064CNS: TI
IC4	8-759-201-61	TC40H004F: TOSHIBA
IC5	8-759-101-12	μPC311G2: NEC
IC6	8-759-909-77	μA711CN: TI
IC7	8-759-201-61	TC40H004F: TOSHIBA
IC8	8-759-200-81	TC4053BF: TOSHIBA
IC9	8-759-100-93	μPC393G2: NEC
IC10	8-759-201-64	TC40H074F: TOSHIBA
IC11	8-759-200-81	TC4053BF: TOSHIBA
IC12	8-759-200-81	TC4053BF: TOSHIBA
IC13	8-759-204-93	TC50H001F: TOSHIBA
IC14	8-759-906-54	TL064CNS: TI
IC15	8-759-200-81	TC4053BF: TOSHIBA
IC16	8-759-910-35	MSM82C55A-5GS: OKI
IC17	8-759-910-35	MSM82C55A-5GS: OKI
IC18	8-759-918-60	MSM81C55GS-K: OKI
IC19	8-759-345-38	HD14538BP: HITACHI
IC20	8-759-204-92	HD14046BP: HITACHI
IC21	8-759-204-92	TC50H000F: TOSHIBA

Ref. No.	Parts No.	Description
Q1	8-729-101-25	2SC1009A
Q2	8-729-101-25	2SC1009A
Q3	8-729-101-25	2SC1009A
Q4	8-729-101-25	2SC1009A
Q5	8-729-122-63	2SA1226
Q6	8-729-122-63	2SA1226
Q7	8-729-101-25	2SC1009A
Q8	8-729-800-43	2SK152-3
Q9	8-729-203-48	2SC3327-A
Q10	8-729-101-25	2SC1009A
Q11	8-729-101-25	2SC1009A
Q12	8-729-101-25	2SC1009A
Q13	8-729-122-63	2SA1226
Q14	8-729-101-25	2SC1009A
Q15	8-729-101-25	2SC1009A
Q16	8-729-101-25	2SC1009A
Q17	8-729-101-25	2SC1009A
Q18	8-729-101-25	2SC1009A
Q19	8-729-122-63	2SA1226
Q20	8-729-101-25	2SC1009A
Q21	8-729-101-25	2SC1009A
Q22	8-729-101-25	2SC1009A
Q23	8-729-101-25	2SC1009A
Q24	8-729-122-63	2SA1226
Q25	8-729-175-73	2SC2757
Q26	8-729-175-73	2SC2757
Q27	8-729-175-73	2SC2757
Q28	8-729-275-73	2SC2757
Q29	8-729-122-63	2SA1226
Q30	8-729-101-25	2SC1009A
Q31	8-729-101-25	2SC1009A
Q32	8-729-101-25	2SC1009A
Q33	8-729-101-25	2SC1009A
Q34	8-729-101-25	2SC1009A
Q35	8-729-109-44	2SK94
Q36	8-729-109-44	2SK94
Q37	8-729-101-25	2SC1009A
Q38	8-729-101-25	2SC1009A
Q39	8-729-101-25	2SC1009A
Q40	8-729-101-25	2SC1009A
Q41	8-729-122-63	2SA1226
Q42	8-729-122-63	2SA1226
Q43	8-729-101-25	2SC1009A
Q44	8-729-800-43	2SK152-3
Q45	8-729-203-48	2SC3327-A

Ref. No.	Parts No.	Description
Q46	8-729-101-25	2SC1009A
Q47	8-729-101-25	2SC1009A
Q48	8-729-101-25	2SC1009A
Q49	8-729-122-63	2SA1226
Q50	8-729-109-44	2SK94
Q51	8-729-159-64	2SD596
Q52	8-729-162-44	2SB624-BV4
Q53	8-729-101-25	2SC1009A
Q54	8-729-101-25	2SC1009A
Q55	8-729-109-44	2SK94
Q56	8-729-101-25	2SC1009A
Q57	8-729-101-25	2SC1009A
Q58	8-729-101-25	2SC1009A
Q59	8-729-101-25	2SC1009A
Q60	8-729-175-73	2SC2757
Q61	8-729-175-73	2SC2757
R25	1-125-481-00	METAL 330K 1% 1/6W
R121	1-215-473-00	METAL 150K 1% 1/6W
RV1	1-228-475-00	METAL 20K
RV2	1-228-472-00	METAL 2K
RV3	1-228-475-00	METAL 20K
S1	1-553-856-00	KEY BOARD
S2	1-554-076-00	SLIDE
S3	1-554-076-00	SLIDE

AT-33 BOARD

Ref. No.	Parts No.	Description
C1	1-163-038-00	CERAMIC CHIP 0.1 25V
C2	1-163-038-00	CERAMIC CHIP 0.1 25V
C3	1-163-038-00	CERAMIC CHIP 0.1 25V
C4	1-163-038-00	CERAMIC CHIP 0.1 25V
C5	1-163-038-00	CERAMIC CHIP 0.1 25V
C6	1-163-038-00	CERAMIC CHIP 0.1 25V
IC1	8-759-204-85	TC40H273F: TOSHIBA
IC2	8-759-204-75	TC40H175F: TOSHIBA
IC3	8-759-201-53	TC40H000F: TOSHIBA
IC4	8-759-201-53	TC40H000F: TOSHIBA
IC5	8-759-201-53	TC40H000F: TOSHIBA
IC6	8-759-204-51	TC40H008F: TOSHIBA
IC7	8-759-201-64	TC40H074F: TOSHIBA
IC8	8-759-204-69	TC40H161F: TOSHIBA
IC9	8-759-201-64	TC40H074F: TOSHIBA
IC10	8-759-201-53	TC40H000F: TOSHIBA
IC11	8-759-204-51	TC40H008F: TOSHIBA
IC12	8-759-204-59	TC40H138F: TOSHIBA
IC13	8-759-204-73	TC40H166F: TOSHIBA
IC14	8-759-204-52	TC40H011F: TOSHIBA
IC15	8-759-204-75	TC40H175F: TOSHIBA
IC16	8-759-204-72	TC40H164F: TOSHIBA
IC17	8-759-204-63	TC40H151F: TOSHIBA
IC18	8-759-204-72	TC40H164F: TOSHIBA
IC19	8-759-204-63	TC40H151F: TOSHIBA

AU-56 BOARD

Ref. No.	Parts No.	Description
	A-7513-138-A	MOUNTED CIRCUIT BOARD "AU-56"
	1-560-707-00	POLARISING KEY
C3	1-161-894-11	CERAMIC 0.22 50V
C4	1-123-611-00	ELECT 1 20% 50V
C6	1-123-821-00	ELECT 47 20% 50V
C8	1-161-463-00	CERAMIC 220PF 5% 50V
C10	1-161-896-11	CERAMIC 0.22 50V
C11	1-161-896-11	CERAMIC 0.22 50V
C12	1-123-822-11	ELECT 47 20% 10V
C15	1-123-822-11	ELECT 47 20% 10V
C16	1-124-140-00	ELECT 220 20% 10V
C17	1-123-822-11	ELECT 47 20% 10V
C21	1-161-896-11	CERAIC 0.22 50V
C22	1-123-611-00	ELECT 1 20% 50V
C26	1-161-463-00	CERAMIC 220PF 5% 50V
C28	1-161-896-11	CERAMIC 0.22 50V
C29	1-161-896-11	CERAMIC 0.22 50V
C31	1-124-156-00	ELECT 22 20% 50V
C32	1-161-459-00	CERAMIC 100PF 5% 50V
C33	1-124-156-00	ELECT 22 20% 50V
C34	1-124-156-00	ELECT 22 20% 50V
C35	1-161-459-00	CERAMIC 100PF 5% 50V
C38	1-161-013-00	CERAMIC 0.01 10% 25V
C40	1-124-140-00	ELECT 220PF 20% 10V
C43	1-161-013-00	CERAMIC 0.01 10% 25V
C44	1-161-013-00	CERAMIC 0.01 10% 25V
C45	1-161-855-00	CERAMIC 47PF 5% 50V
C46	1-161-013-00	CERAMIC 0.01 10% 25V
C47	1-161-013-00	CERAMIC 0.01 10% 25V
C48	1-124-139-00	ELECT 100 20% 10V
C50	1-124-139-00	ELECT 100 20% 10V
C51	1-161-013-00	CERAMIC 0.01 10% 25V
C52	1-123-821-00	ELECT 47 20% 16V
C53	1-161-013-00	CERAMIC 0.01 10% 25V
C54	1-123-821-00	ELECT 47 20% 16V
C55	1-124-156-00	ELECT 22 20% 50V
C56	1-161-459-00	CERAMIC 100PF 5% 50V
C57	1-124-156-00	ELECT 22 20% 50V
C58	1-124-156-00	ELECT 22 20% 50V
C59	1-161-459-00	CERAMIC 100PF 5% 50V
C62	1-161-013-00	CERAMIC 0.01 10% 25V
C64	1-124-140-00	ELECT 220 20% 10V

Ref. No.	Parts No.	Description
C67	1-161-013-00	CERAMIC 0.01 10% 25V
C68	1-161-013-00	CERAMIC 0.01 10% 25V
C69	1-161-855-00	CERAMIC 47PF 5% 50V
C70	1-161-013-00	CERAMIC 0.01 10% 25V
C71	1-161-013-00	CERAMIC 0.01 10% 25V
C72	1-124-139-00	ELECT 100 20% 10V
C73	1-124-139-00	ELECT 100 20% 10V
C74	1-161-013-00	CERAMIC 0.01 10% 25V
C75	1-123-821-00	ELECT 47 20% 16V
C76	1-161-013-00	CERAMIC 0.01 10% 25V
C77	1-123-821-00	ELECT 47 20% 26V
C78	1-123-822-00	ELECT 47 20% 10V
C79	1-123-822-00	ELECT 47 20% 10V
C80	1-161-896-11	CERAMIC 0.22 50V
C82	1-123-822-00	ELECT 47 20% 10V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D2	8-719-101-98	1SS97
D3	8-719-101-98	1SS97
D5	8-719-101-98	1SS97
D6	8-719-101-98	1SS97
D7	8-719-910-74	HZ7B1L
D8	8-719-910-74	HZ7B1L
D9	8-719-815-55	1S1555
D10	8-719-815-55	1S1555
D11	8-719-815-55	1S1555
D12	8-719-910-74	HZ7B1L
D13	8-719-910-74	HZ7B1L
D14	8-719-815-55	1S1555
D15	8-719-815-55	1S1555
D16	8-719-815-55	1S1555
D17	8-719-910-74	HZ7B1L
D18	8-719-910-74	HZ7B1L
D19	8-719-910-74	HZ7B1L
D20	8-719-910-74	HZ7B1L
D21	8-719-815-55	1S1555
D22	8-719-815-55	1S1555

Ref. No.	Parts No.	Description
D23	8-719-815-55	1S1555
D24	8-719-815-55	1S1555
D25	8-719-982-04	ERB81-004
IC1	8-759-745-60	NJM4560D: JRC
IC2	8-759-745-56	NJM4556D: JRC
IC3	8-759-745-60	NJM4560D: JRC
IC4	8-759-745-56	NJM4556D: JRC
IC5	8-759-745-56	NJM4556D: JRC
IC6	8-759-745-60	NJM4560D: JRC
IC7	8-759-745-56	NJM4556D: JRC
IC8	8-759-745-56	NJM4556D: JRC
L1	1-408-450-21	MICRO 47
L2	1-408-450-21	MICRO 47
L3	1-408-450-21	MICRO 47
L4	1-408-450-21	MICRO 47
L7	1-408-442-21	MICRO 10
L8	1-408-442-21	MICRO 10
L9	1-408-450-21	MICRO 47
L10	1-408-450-21	MICRO 47
L11	1-408-442-21	MICRO 10
L12	1-408-442-21	MICRO 10
L13	1-408-450-21	MICRO 47
L14	1-408-450-21	NICRO 47
Q1	8-729-800-43	2SK152-3
Q2	8-729-178-54	2SC2785
Q3	8-729-800-43	2SK152-3
Q4	8-729-178-54	2SC2785
Q5	8-729-201-28	2SK146-BL
Q6	8-729-629-12	2SC2291
Q7	8-729-201-28	2SK146-BL
Q8	8-729-629-12	2SC2291
RV2	1-224-930-00	METAL 10K
RV4	1-224-930-00	METAL 10K
RV6	1-224-930-00	METAL 10K
RV7	1-224-940-00	METAL 10K
RV8	1-224-926-00	METAL 500

Ref. No.	Parts No.	Description
RV9	1-224-926-00	METAL 500
RV10	1-224-940-00	METAL 10K
RV11	1-228-462-11	METAL 100K
RV12	1-228-462-11	METAL 100K
S1	1-553-439-00	TOGGLE
S2	1-553-439-00	TOGGLE

CN-11 BOARD

	1-615-804-11	PRINTED CIRCUIT BOARD "CN-11"
CN1	1-564-421-11	RECEPTACLE, 4P MALE
CN2	1-564-423-11	RECEPTACLE, 6P MALE

CN-28 BOARD

	1-615-038-11	PRINTED CIRCUIT BOARD "CN-28"
CN1	1-564-421-11	RECEPTACLE, 4P MALE
CN2	1-564-419-11	RECEPTACLE, 2P MALE
CN4	1-506-467-11	RECEPTACLE, 2P MALE
RY1	1-515-574-11	12V 275
S1	1-526-572-00	SOCKET, POWER VOLTAGE SELECT

Ref. No.	Parts No.	Description

CP-82 BOARD

	A-7513-142-A	MOUNTED CIRCUIT BOARD [CP-82]
CN1	1-506-467-11	RECEPTACLE, 2P MALE
CN2	1-506-471-11	RECEPTACLE, 2P MALE
D1	8-719-920-13	GL9HY10
D2	8-719-920-13	GL9HY10
D3	8-719-920-13	GL9HY10
D4	8-719-920-13	GL9HY10
D5	8-719-920-13	GL9HY10
D6	8-719-920-13	GL9HY10
D7	8-719-920-13	GL9HY10
D8	8-719-920-13	GL9HY10
IC1	8-759-100-97	μPC339G2: NEC
IC2	8-759-100-97	μPC339G2: NEC
IC3	8-759-100-97	μPC339G2: NEC
IC4	8-759-100-94	μPC358G2: NEC
Q1	8-729-101-25	2SC1009A
Q2	8-729-101-25	2SC1009A
Q3	8-729-101-25	2SC1009A
Q4	8-729-101-25	2SC1009A
Q5	8-729-101-25	2SC1009A
Q6	8-729-101-25	2SC1009A
Q7	8-729-101-25	2SC1009A
Q8	1-729-101-25	2SC1009A

Ref. No.	Parts No.	Description

DF-26 BOARD

	A-7513-120-A	MOUNTED CIRCUIT BOARD "DF-26"
	1-560-707-00	POLARISING KEY
C2	1-124-666-11	ELECT 4.7 20% 250V
C5	1-123-380-00	ELECT 1 20% 100V
C6	1-136-195-11	FILM 0.022 5% 400V
C7	1-123-380-00	ELECT 1 20% 100V
C8	1-124-341-00	ELECT 1 20% 200V
C9	1-136-195-11	FILM 0.022 5% 400V
C14	1-123-382-00	ELECT 3.3 20% 100V
C15	1-123-382-00	ELECT 3.3 20% 100V
C17	1-123-382-00	ELECT 3.3 20% 100V
C18	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C21	1-123-382-00	ELECT 3.3 20% 100V
C22	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C23	1-163-263-00	CERAMIC CHIP 330PF 5% 50V
C24	1-163-263-00	CERAMIC CHIP 330PF 5% 50V
C25	1-123-382-00	ELECT 3.3 20% 50V
C28	1-123-382-00	ELECT 3.3 20% 50V
C33	1-123-382-00	ELECT 3.3 20% 100V
C34	1-123-382-00	ELECT 3.3 20% 100V
C35	1-124-344-11	ELECT 22 20% 100V
C36	1-123-382-00	ELECT 3.3 20% 100V
C37	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C38	1-123-382-00	ELECT 3.3 20% 100V
C39	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C43	1-161-013-00	CERAMIC 0.01 10% 25V
C56	1-130-478-00	MYLAR 0.022 5% 50V
C57	1-130-478-00	MYLAR 0.022 5% 50V
C58	1-130-478-00	MYLAR 0.022 5% 50V
C59	1-130-478-00	MYLAR 0.022 5% 50V
C60	1-161-459-00	CERAMIC 100PF 5% 50V
C61	1-161-459-00	CERAMIC 100PF 5% 50V
C62	1-161-459-00	CERAMIC 100PF 5% 50V
C63	1-161-459-00	CERAMIC 100PF 5% 50V
C64	1-106-367-00	MYLAR 0.01 5% 200V
C65	1-124-668-11	ELECT 2.2 20% 200V
C68	1-161-013-00	CERAMIC 0.01 10% 25V
C69	1-124-667-11	ELECT 10 20% 100V
C79	1-124-666-11	ELECT 4.7 20% 250V

Ref. No.	Parts No.	Description
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	8-719-815-55	1S1555
D2	8-719-815-55	1S1555
D3	8-719-815-55	1S1555
D4	8-719-100-05	1S2837
D5	8-719-100-05	1S2837
D6	8-719-100-05	1S2837
D7	8-719-100-05	1S2837
D8	8-719-100-05	1S2837
D9	8-719-800-25	TLR109A
IC1	8-741-127-70	BX1277: SONY
IC2	8-741-127-80	BX1278: SONY
IC3	8-741-127-80	BX1278: SONY
IC4	8-741-127-80	BX1278: SONY
IC5	8-741-127-70	BX1277: SONY
IC6	8-741-137-20	BX1372: SONY
IC7	8-741-137-20	BX1372: SONY
IC8	8-741-137-20	BX1372: SONY
IC9	8-759-201-53	TC40H000F: TOSHIBA
IC10	8-749-911-79	BX1179: SONY
IC11	8-749-911-79	BX1179: SONY
IC12	8-759-906-53	TL062CPS: TI
IC13	8-759-906-54	TL064CNS: TI
IC14	8-759-906-54	TL064CNS: TI
IC15	8-759-906-54	TL064CNS: TI
IC16	8-759-906-54	TL064CNS: TI
IC17	8-759-906-54	TL064CNS: TI
IC18	8-759-906-54	TL064CNS: TI
IC19	8-759-906-53	TL062CPS: TI
IC20	8-759-201-61	TC40H004F: TOSHIBA
IC21	8-759-201-01	TC4066BF: TOSHIBA
IC22	8-759-201-01	TC4066BF: TOSHIBA
IC23	8-759-906-54	TL064CNS: TI
Q1	8-729-122-63	2SA1226
Q2	8-729-200-17	2SA1091
Q3	8-729-255-12	2SC2551
Q4	8-729-200-17	2SA1091
Q5	8-729-255-12	2SC2551

Ref. No.	Parts No.	Description
Q6	8-765-450-30	2SK125-3
Q7	8-729-101-25	2SC1009A
Q8	8-765-450-30	2SK125-3
Q9	8-729-255-12	2SC2551
Q10	8-729-255-12	2SC2551
Q11	8-729-255-12	2SC2551
Q12	8-729-255-12	2SC2551
Q13	8-729-200-17	2SA1091
Q14	8-729-101-25	2SC1009A
Q15	8-729-122-63	2SA1226
Q16	8-729-122-63	2SA1226
R14	1-215-486-00	METAL 510K 1% 1/6W
R15	1-215-476-00	METAL 200K 1% 1/6W
R16	1-215-493-00	METAL 1M 1% 1/6W
R17	1-214-966-00	METAL 1.2M 1% 1/4W
R18	1-215-478-00	METAL 240K 1% 1/6W
R20	1-125-477-00	METAL 220K 1% 1/6W
R22	1-215-442-00	METAL 7.5K 1% 1/6W
R27	1-215-472-00	METAL 130K 1% 1/6W
R28	1-215-478-00	METAL 240K 1% 1/6W
R29	1-215-486-00	METAL 510K 1% 1/6W
R30	1-215-472-00	METAL 130K 1% 1/6W
R95	1-215-493-00	METAL 1M 1% 1/6W
R98	1-215-493-00	METAL 1M 1% 1/6W
R99	1-215-493-00	METAL 1M 1% 1/6W
R102	1-215-493-00	METAL 1M 1% 1/6W
R104	1-215-486-00	METAL 510K 1% 1/6W
R107	1-215-486-00	METAL 510K 1% 1/6W
R109	1-215-486-00	METAL 510K 1% 1/6W
R111	1-215-486-00	METAL 510K 1% 1/6W
R113	1-215-493-00	METAL 1M 1% 1/6W
R122	1-215-493-00	METAL 1M 1% 1/6W
R174	1-215-477-00	METAL 220K 1% 1/6W
R202	1-215-459-00	METAL 39K 1% 1/6W
R203	1-215-472-00	METAL 130K 1% 1/6W
R204	1-215-459-00	METAL 39K 1% 1/6W
R205	1-215-472-00	METAL 130K 1% 1/6W
R206	1-215-466-00	METAL 75K 1% 1/6W
R207	1-215-455-00	METAL 27K 1% 1/6W
R208	1-215-466-00	METAL 75K 1% 1/6W
R209	1-215-455-00	METAL 27K 1% 1/6W
RV1	1-228-458-00	METAL 5K
RV2	1-228-459-00	METAL 10K
RV3	1-230-758-11	METAL 2M
RV4	1-226-101-00	METAL 1M
RV5	1-228-459-00	METAL 10K
RV6	1-230-758-11	METAL 2M
RV7	1-226-096-00	METAL 500K
RV8	1-228-932-00	METAL 10K
RV9	1-228-932-00	METAL 10K
RV10	1-228-932-00	METAL 10K

Ref. No.	Parts No.	Description
RV11	1-228-932-00	METAL 10K
RV12	1-228-458-00	METAL 5K
RV13	1-230-753-21	METAL 100K
RV14	1-230-753-21	METAL 100K
RV15	1-230-753-21	METAL 100K
RV16	1-230-753-21	METAL 100K
RV17	1-230-753-21	METAL 100K
RV18	1-230-753-21	METAL 100K
RV19	1-230-753-21	METAL 100K
RV20	1-230-753-21	METAL 100K
RV21	1-228-462-00	METAL 100K
RV22	1-228-462-00	METAL 100K
RV23	1-228-462-00	METAL 100K
RV24	1-228-462-00	METAL 100K
RV25	1-228-462-00	METAL 100K
RV26	1-228-462-00	METAL 100K
RV27	1-228-462-00	METAL 100K
RV28	1-228-462-00	METAL 100K
RV29	1-228-462-00	METAL 100K
RV30	1-228-462-00	METAL 100K
RV31	1-228-462-00	METAL 100K
S1	1-554-076-00	SLIDE
S2	1-554-075-00	SLIDE
T1	1-433-260-00	COUPLING (H)

EN-24/24A BOARD

	A-7513-124-A	MOUNTED CIRCUIT BOARD "EN-24" (NTSC)
	A-7513-125-A	MOUNTED CERCUIT BOARD "EN-24A" (PAL)
	1-560-707-00	POLARISING KEY

Ref. No.	Parts No.	Description
C39	1-161-459-00	CERAMIC 100PF 5% 50V (PAL)
C40	1-161-465-00	CERAMIC 330PF 5% 50V (PAL)
C41	1-161-459-00	CERAMIC 100PF 5% 50V (NTSC)
C47	1-161-855-00	CERAMIC 47PF 5% 50V (NTSC)
C48	1-161-464-00	CERAMIC 270PF 5% 50V (NTSC)
C48	1-161-460-00	CERAMIC 120PF 5% 50V (PAL)
C59	1-161-468-00	CERAMIC 560PF 5% 50V (NTSC)
C59	1-161-459-00	CERAMIC 100PF 5% 50V (PAL)
C60	1-161-461-00	CERAMIC 150PF 5% 50V (NTSC)
C60	1-161-465-00	CERAMIC 330PF 5% 50V (PAL)
C68	1-161-477-00	CERAMIC 56PF 5% 50V (NTSC)
C69	1-161-457-00	CERAMIC 68PF 5% 50V
C73	1-161-855-00	CERAMIC 47PF 5% 50V
C75	1-161-459-00	CERAMIC 100PF 5% 50V (NTSC)
C75	1-161-458-00	CERAMIC 82PF 5% 50V (PAL)
C76	1-161-459-00	CERAMIC 100PF 5% 50V (NTSC)
C76	1-161-458-00	CERAMIC 82PF 5% 50V (PAL)
C77	1-161-461-00	CERAMIC 150PF 5% 50V (NTSC)
C77	1-161-463-00	CERAMIC 820PF 5% 50V (PAL)
C82	1-163-235-00	CERAMIC 22PF 5% 50V
C83	1-163-235-00	CERAMIC 22PF 5% 50V
C84	1-163-235-00	CERAMIC 22PF 5% 50V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	8-719-815-55	1S1555
D2	8-719-815-55	1S1555
D3	8-719-100-26	RD4.7EB1
D6	8-719-815-55	1S1555
D7	8-719-815-55	1S1555
D8	8-719-815-55	1S1555
D9	8-719-815-55	1S1555
D10	8-719-815-55	1S1555
DL1	1-415-291-00	790nS (NTSC)
DL1	1-415-304-00	338nS (PAL)
DL2	1-415-290-00	410nS (NTSC)

Ref. No.	Parts No.	Description
IC1	8-759-201-60	TC40H002F: TOSHIBA
IC2	8-749-939-33	BX3933: SONY
IC3	8-759-200-81	TC4053BF: TOSHIBA
IC4	8-759-200-81	TC4053BF: TOSHIBA
IC5	8-759-200-86	TC40174BF: TOSHIBA
IC6	8-759-200-81	TC4053BF: TOSHIBA
IC7	8-741-130-40	BX1304: SONY
IC8	8-741-135-60	BX1356: SONY
IC9	8-741-135-60	BX1356: SONY
IC10	8-759-200-81	TC4053BF: TOSHIBA
IC11	8-759-200-81	TC4053BF: TOSHIBA
IC12	8-741-130-50	BX1305: SONY
IC13	8-741-108-20	BX1082: SONY
IC14	8-759-906-13	UA79M05AHC: FSC
IC15	8-759-201-61	TC40H004F: TOSHIBA
IC16	8-759-911-77	CX7968A: SONY
IC17	8-759-906-59	CX22017: SONY
L1	1-408-450-21	MICRO 47
L2	1-408-450-21	MICRO 47
L3	1-408-450-21	MICRO 47
L4	1-408-450-21	MICRO 47
L5	1-408-450-21	MICRO 47
L6	1-408-450-21	MICRO 47
L7	1-408-450-21	MICRO 47
L8	1-408-450-21	MICRO 47
L9	1-408-849-00	MICRO 330 (NTSC)
L9	1-408-452-21	MICRO 68 (PAL)
L10	1-408-145-00	COIL 19 (PAL)
L11	1-408-851-00	MICRO 560 (NTSC)
L11	1-408-452-21	MICRO 68 (PAL)
L12	1-408-450-21	MICRO 47
L13	1-408-450-21	MICRO 47
L14	1-408-148-00	MICRO 10 (NTSC)
L14	1-408-440-21	MICRO 6.8 (PAL)
L15	1-408-150-00	MICRO 22 (NTSC)
L15	1-408-170-00	MICRO 18 (PAL)
L16	1-408-450-21	MICRO 47
L18	1-408-450-21	MICRO 47
LV1	1-408-844-00	22
LV2	1-408-844-00	22 (NTSC)
LV2	1-408-845-00	100 (PAL)

Ref. No.	Parts No.	Description
Q1	8-729-101-25	2SC1009A
Q2	8-729-101-25	2SC1009A
Q3	8-729-122-63	2SA1226
Q4	8-729-101-25	2SC1009A
Q5	8-729-122-63	2SA1226
Q6	8-729-175-73	2SC2757
Q7	8-729-175-73	2SC2757
Q8	8-729-100-66	2SC1623
Q9	8-729-175-73	2SC2757
Q10	8-729-175-73	2SC2757
Q11	8-729-105-53	2SK300
Q12	8-729-100-76	2SA812
Q13	8-729-105-53	2SK300
Q14	8-729-100-76	2SA812
Q15	8-729-105-53	2SK300
Q16	8-729-100-66	2SC1623
Q17	8-729-175-73	2SC2757
Q18	8-729-175-73	2SC2757
Q19	8-729-175-73	2SC2757
Q20	8-729-175-73	2SC2757
Q21	8-729-175-73	2SC2757
Q22	8-729-122-63	2SA1226
Q23	8-729-175-73	2SC2757
Q24	8-729-175-73	2SC2757
Q25	8-729-175-73	2SC2757
Q26	8-729-175-73	2SC2757
Q27	8-729-175-73	2SC2757
Q28	8-729-122-63	2SA1226
Q29	8-729-100-76	2SA812
Q30	8-729-802-43	2SK125-3
Q31	8-729-100-76	2SA812
Q32	8-729-802-43	2SK125-3
Q33	8-729-100-76	2SA812
Q34	8-729-802-43	2SK125-3
Q35	8-729-100-66	2SC1623
Q36	8-729-802-43	2SK125-3
Q37	8-729-100-76	2SA812
Q38	8-729-100-66	2SC1623
Q39	8-729-802-43	2SK125-3
Q40	8-729-802-43	2SK125-3
Q41	8-729-802-43	2SK125-3
Q42	8-729-100-66	2SC1623
Q43	8-729-100-66	2SC1623
Q44	8-729-100-66	2SC1623
Q45	8-729-100-66	2SC1623

Ref. No.	Parts No.	Description
Q46	8-729-122-63	2SA1226
Q47	8-729-101-25	2SC1009A
Q48	8-729-101-25	2SC1009A
Q49	8-729-101-25	2SC1009A
Q50	8-729-101-25	2SC1009A (NTSC)
Q51	8-729-101-25	2SC1009A (NTSC)
Q52	8-729-101-25	2SC1009A (NTSC)
Q53	8-729-101-25	2SC1009A
Q54	8-729-122-63	2SA1226
Q55	8-729-122-63	2SA1226
Q56	8-729-101-25	2SC1009A
Q57	8-729-122-63	2SA1226
Q58	8-729-101-25	2SC1009A
Q59	8-729-101-25	2SC1009A
Q60	8-729-101-25	2SC1009A
Q61	8-729-101-25	2SC1009A
Q62	8-729-101-25	2SC1009A
Q63	8-729-101-25	2SC1009A
Q64	8-729-122-63	2SA1226
Q65	8-729-122-63	2SA1226
Q66	8-729-101-25	2SC1009A
Q67	8-729-122-63	2SA1226
Q68	8-729-101-25	2SC1009A
Q69	8-729-101-25	2SC1009A
R48	1-214-483-00	METAL 4.99K 1% 1/2W
R49	1-214-482-00	METAL 2.55K 1% 1/2W
R65	1-214-485-00	METAL 13.7K 1% 1/2W
R66	1-214-482-00	METAL 2.55K 1% 1/2W
R108	1-214-483-00	METAL 3.32K 1% 1/2W (PAL)
R109	1-214-485-00	METAL 0.99K 1% 1/2W (PAL)
R110	1-214-499-00	METAL 1.62K 0.5% 1/4W (NTSC)
R110	1-214-482-00	METAL 1.62K 1% 1/2W (PAL)
R143	1-214-485-00	METAL 13.7K 1% 1/2W (PAL)
R144	1-214-482-00	METAL 2.55K 1% 1/2W (PAL)
R176	1-214-483-00	METAL 4.99K 1% 1/2W (PAL)
R177	1-214-482-00	METAL 2.55K 1% 1/2W (PAL)
RV1	1-228-455-00	METAL 500
RV2	1-228-458-00	METAL 5K
RV3	1-228-458-00	METAL 200
RV4	1-228-455-00	METAL 500
RV5	1-228-455-00	METAL 500

Ref. No.	Parts No.	Description
RV6	1-228-457-00	METAL 2K
RV7	1-228-457-00	METAL 2K
RV8	1-228-459-00	METAL 10K
RV9	1-228-457-00	METAL 2K
RV10	1-228-457-00	METAL 2K
RV11	1-228-458-00	METAL 5K
RV12	1-228-456-00	METAL 1K
RV13	1-228-456-00	METAL 1K
RV14	1-230-749-21	METAL 5K
RV15	1-228-457-00	METAL 2K
RV16	1-228-456-00	CERMET 1K
RV17	1-230-749-21	CERMET 5K
RV18	1-228-457-00	CERMET 2K
RV19	1-228-456-00	CERMET 1K
RV20	1-228-456-00	CERMET 1K
RV21	1-228-456-00	CERMET 1K
RV22	1-228-455-00	CERMET 500
S2	1-554-076-00	SLIDE
S3	1-554-076-00	SLIDE
S4	1-553-439-00	TOGGLE

Ref. No.	Parts No.	Description
RV16	1-228-457-00	METAL 2K
RV17	1-230-749-21	METAL 5K
RV18	1-228-457-00	METAL 2K
RV19	1-228-456-00	METAL 1K
RV20	1-228-456-00	METAL 1K
RV21	1-228-456-00	METAL 1K
RV22	1-228-455-00	METAL 500
S2	1-554-076-00	SLIDE
S3	1-554-076-00	SLIDE
S4	1-553-439-00	TOGGLE

Ref. No.	Parts No.	Description
FU-24/24A BOARD		
	1-615-028-12	PRINTED CIRCUIT BOARD "FU-24" (NTSC)
	1-615-028-22	PRINTED CIRCUIT BOARD "FU-24A" (PAL)
	1-533-131-00	HOLDER, FUSE
CN2	1-564-421-11	RECEPTACLE, 4P MALE
CN3	1-564-419-11	RECEPTACLE, 2P MALE
CN4	1-564-423-11	RECEPTACLE, 6P MALE
CN5	1-564-422-11	RECEPTACLE, 5P MALE
F1	1-532-350-00	TIME-LAG 4A 250V
F2	1-532-350-00	TIME-LAG 4A 250V
F3	1-532-350-00	TIME-LAG 4A 250V
F4	1-532-350-00	TIME-LAG 4A 250V
RY1	1-515-574-11	12V 275Ω

Ref. No.	Parts No.	Description
HN-32 BOARD		
	A-7513-128-A	MOUNTED CERCUIT BOARD "HN-32"
	1-560-707-00	POLARISING KEY
CN1	1-564-852-11	RECEPTACLE, 60P MALE
CN2	1-564-861-11	RECEPTACLE, 16P MALE
CN3	1-564-264-11	RECEPTACLE, 8P MALE
CN4	1-564-861-11	RECEPTACLE, 16P MALE
CN5	1-564-264-11	RECEPTACLE, 8P MALE
CN6	1-564-861-11	RECEPTACLE, 16P MALE
CN7	1-564-264-11	RECEPTACLE, 8P MALE
D1	8-719-101-36	RD3.3EL1
TM1	1-548-119-21	TIMER
	1-517-072-00	HOLDER

Ref. No.	Parts No.	Description
IE-8/8P BOARD		
	A-7513-121-A	MOUNTED CIRCUIT BOARD "IE-8" (NTSC)
	A-7513-122-A	MOUNTED CIRCUIT BOARD "IE-8P" (PAL)
	1-560-707-00	POLARISING KEY
C3	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C7	1-107-001-00	MICA 18PF 10% 500V
C10	1-163-101-00	CERAMIC CHIP 22PF 5% 50V
C11	1-161-458-00	CERAMIC 82PF 5% 50V
C12	1-161-855-00	CERAMIC 47PF 5% 50V
C15	1-161-477-00	CERAMIC 56PF 5% 50V
C18	1-161-458-00	CERAMIC 82PF 5% 50V
C19	1-161-855-00	CERAMIC 47PF 5% 50V
C23	1-161-477-00	CERAMIC 56PF 5% 50V
C26	1-163-097-00	CERAMIC CHIP 15PF 5% 50V
C29	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C33	1-107-001-00	MICA 18PF 10% 500V
C35	1-163-243-00	CERAMIC CHIP 5% 50V
C41	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C44	1-163-097-00	CERAMIC CHIP 15PF 5% 50V
C50	1-163-227-00	CERAMIC CHIP 10PF 5% 50V
C53	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C57	1-107-001-00	MICA 18PF 10% 500V
C72	1-102-110-00	CERAMIC 220PF 10% 50V
C79	1-163-105-00	CERAMIC CHIP 33PF 5% 50V
C90	1-161-462-00	CERAMIC 180PF 5% 50V
C96	1-107-054-00	MICA 33PF 10% 50V
C103	1-163-088-00	CERAMIC CHIP 5PF ±0.25PF 50V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
CN2	1-560-632-00	RECEPTACLE, 2P MALE
	1-561-724-00	PLUG HOUSING 2P
CV1	1-141-301-11	CERAMIC 35PF
CV2	1-141-291-11	CERAMIC 20PF
D1	8-719-100-03	1S2835
D2	8-719-915-20	FC52M
D3	8-719-100-03	1S2835
D4	8-719-100-03	1S2835
D5	8-719-101-98	1SS97

Ref. No.	Parts No.	Description
D6	8-719-101-98	1SS97
D7	8-719-101-98	1SS97
D8	8-719-100-03	1S2835
D9	8-719-101-98	1SS97
D10	8-719-101-98	1SS97
D11	8-719-815-55	1S1555
D12	8-719-101-98	1SS97
DL1	1-415-408-11	DUAL 50nS 100nS
DL2	1-415-408-11	DUAL 50nS 100nS
DL3	1-415-408-11	DUAL 50nS 100nS
DL4	1-415-407-11	63.515uS (NTSC)
DL4	1-415-407-21	63.960uS (PAL)
DL5	1-415-409-11	100nS
DL6	1-415-410-11	200nS
DL7	1-415-411-11	140nS
IC1	8-759-700-95	NJM1496M: JRC
IC2	8-759-700-95	NJM1496M: JRC
IC3	8-759-700-95	NJM1496M: JRC
IC4	8-759-700-95	NJM1496M: JRC
IC5	8-759-700-95	NJM1496M: JRC
IC6	8-759-700-95	NJM1496M: JRC
IC7	8-759-700-95	NJM1496M: JRC
IC8	8-759-906-54	TL064CNS: TI
IC9	8-759-200-81	TC4053BF: TOSHIBA
IC10	8-759-200-79	TC4049BF: TOSHIBA
IC11	8-759-906-54	TL064CNS: TI
IC12	8-759-700-95	NJM1496M: JRC
L1	1-408-450-21	MICRO 47
L2	1-408-450-21	MICRO 47
L3	1-408-146-00	MICRO 1
L4	1-408-146-00	MICRO 1
L5	1-408-462-21	MICRO 47
L6	1-408-450-21	MICRO 47
L7	1-408-450-21	MICRO 47
L8	1-408-450-21	MICRO 47
L9	1-408-450-21	MICRO 47
L10	1-408-462-21	MICRO 47

Ref. No.	Parts No.	Description
L11	1-408-147-00	MICRO 2.2
L12	1-408-146-00	MICRO 1
L13	1-408-462-21	MICRO 47
L14	1-408-462-21	MICRO 47
L15	1-408-445-21	MICRO 18
L16	1-408-450-21	MICRO 47
L17	1-408-450-21	MICRO 47
L18	1-408-450-21	MICRO 47
L20	1-408-450-21	MICRO 47
L21	1-408-450-21	MICRO 47
L22	1-408-450-21	MICRO 47
L23	1-408-851-00	MICRO 560
L24	1-408-454-21	MICRO 18
Q1	8-729-101-25	2SC1009A
Q2	8-729-101-25	2SC1009A
Q3	8-729-800-43	2SK152-3
Q4	8-729-101-25	2SC1009A
Q5	8-729-101-25	2SC1009A
Q6	8-729-101-25	2SC1009A
Q7	8-729-122-63	2SA1226
Q8	8-729-101-25	2SC1009A
Q9	8-729-101-25	2SC1009A
Q10	8-729-101-25	2SC1009A
Q11	8-729-101-25	2SC1009A
Q12	8-729-101-25	2SC1009A
Q13	8-729-122-63	2SA1226
Q14	8-729-122-63	2SA1226
Q15	8-729-101-25	2SC1009A
Q16	8-729-101-25	2SC1009A
Q17	8-729-800-43	2SK152-3
Q18	8-729-101-25	2SC1009A
Q19	8-729-101-25	2SC1009A
Q20	8-729-101-25	2SC1009A
Q21	8-729-122-63	2SA1226
Q22	8-729-101-25	2SC1009A
Q23	8-729-101-25	2SC1009A
Q24	8-729-101-25	2SC1009A
Q25	8-729-122-63	2SA1226
Q26	8-729-101-25	2SC1009A
Q27	8-729-122-63	2SA1226
Q28	8-729-175-73	2SC2757
Q29	8-729-800-43	2SK152-3
Q30	8-729-175-73	2SC2757

Ref. No.	Parts No.	Description
Q31	8-729-175-73	2SC2757
Q32	8-729-175-73	2SC2757
Q33	8-729-122-63	2SA1226
Q34	8-729-122-63	2SA1226
Q35	8-729-122-63	2SA1226
Q36	8-729-101-25	2SC1009A
Q37	8-729-101-25	2SC1009A
Q38	8-729-800-43	2SK152-3
Q39	8-729-101-25	2SC1009A
Q40	8-729-101-25	2SC1009A
Q41	8-729-101-25	2SC1009A
Q42	8-729-122-63	2SA1226
Q43	8-729-101-25	2SC1009A
Q44	8-729-101-25	2SC1009A
Q45	8-729-800-43	2SK152-3
Q46	8-729-100-66	2SC1623
Q47	8-729-100-76	2SA812
Q48	8-729-800-43	2SK152-3
Q49	8-729-100-76	2SA812
Q50	8-729-100-76	2SA812
Q51	8-729-100-66	2SC1623
Q52	8-729-122-63	2SA1226
Q53	8-729-101-25	2SC1009A
Q54	8-729-101-25	2SC1009A
Q55	8-729-101-25	2SC1009A
Q56	8-729-101-25	2SC1009A
Q57	8-729-101-25	2SC1009A
Q58	8-729-101-25	2SC1000A
Q59	8-729-101-25	2SC1009A
Q60	8-729-101-25	2SC1009A
Q61	8-729-800-43	2SK152-3
Q62	8-729-122-63	2SA1226
Q63	8-729-122-63	2SA1226
Q64	8-729-101-25	2SC1009A
Q65	8-729-802-43	2SK125-3
Q66	8-729-802-43	2SK125-3
Q67	8-729-101-25	2SC1009A
Q68	8-729-101-25	2SC1009A
Q69	8-729-101-25	2SC1009A
Q70	8-729-101-25	2SC1009A
Q71	8-729-101-25	2SC1009A
Q72	8-729-101-25	2SC1009A
Q73	8-729-101-25	2SC1009A
Q74	8-729-101-25	2SC1009A
Q75	8-729-101-25	2SC1009A

Ref. No.	Parts No.	Description
Q76	8-729-101-25	2SC1009A
Q77	8-729-101-25	2SC1009A
Q78	8-729-101-25	2SC1009A
Q79	8-729-101-25	2SC1009A
Q80	8-729-101-25	2SC1009A
Q81	8-729-101-25	2SC1009A
Q82	8-729-122-63	2SA1226
Q83	8-729-122-63	2SA1226
RV1	1-228-457-00	METAL 2K
RV2	1-228-455-00	METAL 500
RV3	1-228-455-00	METAL 500
RV4	1-228-457-00	METAL 2K
RV5	1-228-457-00	METAL 2K
RV6	1-228-457-00	METAL 2K
RV7	1-228-460-00	METAL 20K
RV8	1-228-454-00	METAL 200
RV9	1-228-457-00	METAL 2K
RV10	1-228-457-00	METAL 2K
RV11	1-224-928-00	METAL 2K
RV12	1-228-455-00	METAL 500
RV13	1-224-927-00	METAL 1K
RV14	1-224-925-00	METAL 200
S1	1-553-439-00	TOGGLE
S2	1-553-439-00	TOGGLE
X1	1-567-460-11	30MHz
X2	1-567-460-11	30MHz
THP1	1-807-362-11	10K

Ref. No.	Parts No.	Description
IF-39 BOARD		
	1-560-707-00	POLARISING KEY
C6	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C11	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C22	1-161-470-00	CERAMIC 820PF 5% 50V
C25	1-130-192-00	FILM 0.22 5% 100V
C31	1-163-133-00	CERAMIC CHIP 470PF 5% 50V
C32	1-163-133-00	CERAMIC CHIP 470PF 5% 50V
C38	1-163-105-00	CERAMIC CHIP 33PF 5% 50V
C45	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
CN2	1-560-421-00	RECEPTACLE, 18P MALE
D1	8-719-101-23	1SS123
D2	8-719-101-23	1SS123
D3	8-719-101-23	1SS123
DL1	1-415-418-11	TTL 250nS
DL2	1-415-418-11	TTL 250nS
DL3	1-415-418-11	TTL 250nS
IC1	8-741-135-60	BX1356: SONY
IC4	8-741-135-60	BX1356: SONY
IC7	8-741-135-60	BX1356: SONY
IC9	8-741-135-60	BX1356: SONY
IC11	8-759-204-74	TC40H174F: TOSHIBA
IC12	8-759-906-54	TL064CNS: TI
IC13	8-759-100-97	μPC339G2: NEC
IC14	8-759-100-97	μPC339G2: NEC
IC15	8-759-100-97	μPC339G2: NEC
IC16	8-759-906-54	TL064CNS: TI
IC17	8-759-906-54	TL064CNS: TI
IC18	8-759-100-97	μPC339G2: NEC
IC19	8-759-205-47	TC4040BF: TOSHIBA
IC20	8-759-766-39	27C32-BVP360VFIND1: FUJITSU
IC21	8-759-201-64	TC40H074F: TOSHIBA

Ref. No.	Parts No.	Description
IC22	8-759-201-64	TC40H074F: TOSHIBA
IC23	8-759-204-75	TC40H175F: TOSHIBA
IC24	8-759-201-53	TC40H000F: TOSHIBA
IC25	8-759-201-60	TC40H002F: TOSHIBA
IC26	8-759-201-60	TC40H002F: TOSHIBA
IC27	8-759-201-53	TC40H000F: TOSHIBA
IC28	8-759-201-53	TC40H000F: TOSHIBA
IC29	8-759-204-75	TC40H175F: TOSHIBA
IC30	8-759-201-60	TC40H002F: TOSHIBA
IC31	8-759-201-60	TC40H002F: TOSHIBA
IC32	8-759-201-60	TC40H002F: TOSHIBA
IC33	8-759-201-53	TC40H000F: TOSHIBA
IC34	8-759-201-60	TC40H002F: TOSHIBA
IC35	8-759-201-53	TC40H000F: TOSHIBA
IC36	8-759-201-60	TC40H002F: TOSHIBA
IC37	8-759-201-60	TC40H002F: TOSHIBA
IC38	8-759-201-60	TC40H002F: TOSHIBA
IC39	8-759-201-53	TC40H000F: TOSHIBA
IC40	8-759-201-60	TC40H002F: TOSHIBA
IC41	8-759-201-60	TC40H002F: TOSHIBA
Q3	8-729-122-63	2SA1226
Q4	8-729-122-63	2SA1226
Q5	8-729-100-66	2SC1623
Q6	8-729-122-63	2SA1226
Q7	8-729-122-63	2SA1226
Q8	8-729-101-25	2SC1009A
Q9	8-729-101-25	2SC1009A
Q10	8-729-100-66	2SC1623
Q11	8-729-100-66	2SC1623
Q12	8-729-122-63	2SA1226
Q13	8-729-122-63	2SA1226
Q14	8-729-802-43	2SK125-3
Q15	8-729-122-63	2SA1226
Q16	8-729-122-63	2SA1226
Q17	8-729-802-43	2SK125-3
Q18	8-729-802-43	2SK125-3
Q19	8-729-122-63	2SA1226
Q20	8-729-122-63	2SA1226
Q21	8-729-101-25	2SC1009A

Ref. No.	Parts No.	Description
RV1	1-228-456-00	METAL 1K
RV2	1-228-456-00	METAL 1K
RV3	1-228-456-00	METAL 1K
RV4	1-228-457-00	METAL 2K
RV5	1-228-460-00	METAL 20K
RV6	1-228-457-00	METAL 2K
RV7	1-228-460-00	METAL 20K
S1	1-554-078-00	SLIDE
S2	1-553-439-00	TOGGLE
S3	1-553-439-00	TOGGLE
S4	1-553-439-00	TOGGLE
S5	1-553-439-00	TOGGLE

IF-71 BOARD

A-7513-137-A	MOUNTED CIRCUIT BOARD "IF-71"	
1-560-707-00	POLARISING KEY	
C5	1-161-467-00	CERAMIC 470PF 5% 50V
C9	1-102-978-00	CERAMIC 220PF 5% 50V
C10	1-130-483-00	MYLAR 0.01 5% 50V
C11	1-130-483-00	MYLAR 0.01 5% 50V
C12	1-130-483-00	MYLAR 0.01 5% 50V
C13	1-130-483-00	MYLAR 0.01 5% 50V
C18	1-130-483-00	MYLAR 0.01 5% 50V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	8-719-139-07	RD3.9E-B
D2	8-719-101-98	1SS97

Ref. No.	Parts No.	Description
IC1	8-759-220-00	TC40H000P: TOSHIBA
IC2	8-759-200-08	TC40H367P: TOSHIBA
IC3		μPD8749HD-191: NEC
IC4	8-759-241-63	TC40163BP: TOSHIBA
IC5	8-759-241-63	TC40163BP: TOSHIBA
IC6	8-759-241-63	TC40163BP: TOSHIBA
IC7	8-759-241-63	TC40163BP: TOSHIBA
IC8	8-759-101-14	μPD82C43C: NEC
IC9	8-759-900-84	TL064CN: TI
IC10	8-759-240-11	TC4011BP: TOSHIBA
Q1	8-729-178-54	2SC2785
Q2	8-729-178-54	2SC2785
Q3	8-729-117-54	2SA1175
Q4	8-729-178-54	2SC2785
Q5	8-729-117-54	2SA1175
Q6	8-729-178-54	2SC2785
Q7	8-729-178-54	2SC2785
Q8	8-729-113-32	2SB733
Q9	8-729-113-32	2SB733
RP1	1-235-052-00	33K
RP2	1-235-052-00	33K
S1	1-553-441-00	TOGGLE
S2	1-554-080-00	ROTARY
X1	1-527-941-00	10.944MHz

Ref. No.	Parts No.	Description

IF-76 BOARD

C2	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C3	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C4	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C5	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C6	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C7	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C11	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C15	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C21	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C22	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C23	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C24	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C28	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C29	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C32	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C35	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
CN1	1-562-783-11	RECEPTACLE, 18P FEMALE
	1-508-944-00	PIN
CN2	1-562-784-11	RECEPTACLE, 18P MALE
	1-508-944-00	PIN
CV1	1-141-298-11	CERAMIC 10PF
D1	8-719-100-03	1S2835
D2	8-719-101-23	1SS123
D3	8-719-100-05	1S2837
IC1	8-759-200-81	TC4053BF: TOSHIBA
IC2	8-759-200-81	TC4053BF: TOSHIBA
IC3	8-759-200-81	TC4053BF: TOSHIBA
IC4	8-759-203-94	TC40H010F: TOSHIBA
IC5	8-759-201-53	TC40H000F: TOSHIBA
IC6	8-759-201-53	TC40H000F: TOSHIBA
IC7	8-759-201-60	TC40H002F: TOSHIBA
IC8	8-759-201-53	TC40H000F: TOSHIBA

Ref. No.	Parts No.	Description
Q1	8-729-100-66	2SC1623
Q2	8-729-803-37	2SA1237
Q3	8-729-175-73	2SC2757
Q4	8-729-105-53	2SK300
Q5	8-729-100-66	2SC1623
Q6	8-729-100-66	2SC1623
Q7	8-729-100-66	2SC1623
Q8	8-729-100-66	2SC1623
Q9	8-729-100-66	2SC1623
Q10	8-729-100-76	2SA812
Q11	8-729-100-76	2SA812
Q12	8-729-100-66	2SC1623
Q13	8-729-100-66	2SC1623
Q14	8-729-100-66	2SC1623
Q15	8-729-802-43	2SK125-3
Q16	8-729-802-43	2SK125-3
Q17	8-729-100-66	2SC1623
Q18	8-729-100-66	2SC1623
Q19	8-729-100-76	2SA812
Q20	8-729-100-76	2SA812
Q21	8-729-100-66	2SC1623
Q22	8-729-803-37	2SA1237
Q23	8-729-175-73	2SC2757
Q24	8-729-105-53	2SK300
Q25	8-729-100-66	2SC1623
Q26	8-729-100-66	2SC1623
Q27	8-729-100-66	2SC1623
Q28	8-729-100-76	2SA812
Q29	8-729-100-76	2SA812
Q30	8-729-100-66	2SC1623
Q31	8-729-100-66	2SC1623
Q32	8-729-100-66	2SC1623
Q33	8-729-802-43	2SK125-3
Q34	8-729-802-43	2SK125-3
Q35	8-729-100-76	2SA812
Q36	8-729-100-66	2SC1623
Q37	8-729-175-73	2C2757
Q38	8-729-803-37	2SA1237
Q39	8-729-105-53	2SK300
Q40	8-729-100-66	2SC1623
Q41	8-729-100-66	2SC1623
Q42	8-729-100-66	2SC1623
Q43	8-729-100-76	2SA812
Q44	8-729-100-76	2SA812
Q45	8-729-100-66	2SC1623

Ref. No.	Parts No.	Description
Q46	**8-729-100-66**	**2SC1623**
Q47	**8-729-100-66**	**2SC1623**
Q48	**8-729-802-43**	**2SK125-3**
Q49	**8-729-802-43**	**2SK125-3**
Q50	**8-729-100-76**	**2SA812**
Q51	**8-729-100-66**	**2SC1623**
Q52	**8-729-100-66**	**2SC1623**
Q53	**8-729-100-76**	**2SA812**
Q54	**8-729-100-76**	**2SA812**
Q56	**8-729-100-66**	**2SC1623**
Q57	**8-729-802-43**	**2SK125-3**
Q58	**8-729-802-43**	**2SK125-3**
Q59	**8-729-802-43**	**2SK125-3**
Q60	**8-729-802-43**	**2SK125-3**
Q61	**8-729-101-25**	**2SC1009A**
Q62	**8-729-101-25**	**2SC1009A**
Q63	**8-729-101-25**	**2SC1009A**
Q64	**8-729-802-43**	**2SK125-3**
Q65	**8-729-802-43**	**2SK125-3**
Q66	**8-729-101-25**	**2SC1009A**
Q67	**8-729-101-25**	**2SC1009A**
Q68	**8-729-100-66**	**2SC1623**
Q69	**8-729-175-73**	**2SC2757**
Q70	**8-729-100-76**	**2SA812**
Q71	**8-729-100-76**	**2SA812**
Q72	**8-729-122-63**	**2SA1226**
Q73	**8-729-122-63**	**2SA1226**
Q74	**8-729-122-63**	**2SA1226**
S1	**1-554-076-00**	**SLIDE**
S2	**1-554-076-00**	**SLIDE**

Ref. No.	Parts No.	Description
MB-4 BOARD		
	A-7513-149-A	MOUNTED CIRCUIT BOARD "MB-4"
	1-560-707-00	POLARISING KEY RECEPTACLE, 60P FEMALE
CN1	1-562-781-11	RECEPTACLE, 60P FEMALE
CN2	1-562-781-11	RECEPTACLE, 60P FEMALE
CN3	1-562-781-11	RECEPTACLE, 60P FEMALE
CN4	1-560-673-00	RECEPTACLE, 30P MALE
CN5	1-564-876-11	RECEPTACLE, 30P MALE
CN6	1-564-080-00	RECEPTACLE, 12P MALE
CN7	1-564-861-11	RECEPTACLE, 16P MALE
CN8	1-564-866-11	RECEPTACLE, 28P MALE
CN9	1-564-860-11	RECEPTACLE, 14P MALE
CN10	1-506-468-11	RECEPTACLE, 3P MALE
CN11	1-564-079-00	RECEPTACLE, 10P MALE
CN12	1-506-467-11	RECEPTACLE, 2P MALE
CN13	1-506-469-11	RECEPTACLE, 4P MALE
CN14	1-564-991-11	RECEPTACLE, 34P MALE
CN15	1-564-080-00	RECEPTACLE, 12P MALE
CN16	1-564-079-00	RECEPTACLE, 10P MALE
MB-53 BOARD		
	A-7513-148-A	MOUNTED CIRCUIT BOARD "MB-53"
	1-560-707-00	POLARISING KEY
CN1	1-562-781-11	RECEPTACLE, 60P FEMALE
CN2	1-562-781-11	RECEPTACLE, 60P FEMALE
CN3	1-562-781-11	RECEPTACLE, 60P FEMALE
CN4	1-562-781-11	RECEPTACLE, 60P FEMALE
CN5	1-562-781-11	RECEPTACLE, 60P FEMALE

Ref. No.	Parts No.	Description
CN6	1-562-781-11	RECEPTACLE, 60P FEMALE
CN7	1-562-781-11	RECEPTACLE, 60P FEMALE
CN8	1-562-781-11	RECEPTACLE, 60P FEMALE
CN9	1-562-781-11	RECEPTACLE, 60P FEMALE
CN10	1-562-781-11	RECEPTACLE, 60P FEMALE
CN11	1-562-781-11	RECEPTACLE, 60p FEMALE
CN12	1-562-781-11	RECEPTACLE, 60P FEMALE
CN13	1-562-781-11	RECEPTACLE, 60P FEMALE
CN14	1-564-264-11	RECEPTACLE, 8P MALE
CN15	1-564-264-11	RECEPTACLE, 8P MALE
CN16	1-564-264-11	RECEPTACLE, 8P MALE
CN17	1-564-264-11	RECEPTACLE, 8P MALE
CN18	1-561-772-00	RECEPTACLE, 30P FEMALE
	1-508-944-00	**PIN**
CN19	1-564-876-11	RECEPTACLE, 30P MALE
CN20	1-564-153-00	RECEPTACLE, 12P MALE
CN21	1-564-154-00	RECEPTACLE, 14P MALE
	1-561-036-11	**PLUG HOUSING, 14P**
	1-560-767-00	PLUG CONTACT
	1-560-768-00	PLUG CONTACT
	1-508-944-00	**PIN**
CN23	1-564-862-11	RECEPTACLE, 12P MALE
CN24	1-564-264-11	RECEPTACLE, 8P MALE
CN25	1-564-263-11	RECEPTACLE, 6P MALE
CN26	1-564-862-11	RECEPTACLE, 20P MALE
CN27	1-564-867-11	RECEPTACLE, 30P MALE
CN28	1-564-154-00	RECEPTACLE, 14P MALE
CN29	1-564-532-11	RECEPTACLE, 16P MALE
CN32	1-564-990-11	RECEPTACLE, 15P MALE
CN33	1-564-989-11	RECEPTACLE, 10P MALE
CN34	1-506-481-11	RECEPTACLE, 2P MALE
CN35	1-506-482-11	RECEPTACLE, 3P MALE
PA-28 BOARD		
	A-7513-151-A	MOUNTED CIRCUIT BOARD "PA-28"
C5	**1-163-133-00**	**CERAMIC CHIP 470PF 5% 50V**
CN1	1-506-470-11	RECEPTACLE, 5P MALE

Ref. No.	Parts No.	Description
CV1	**1-141-301-11**	**CERAMIC 35PF**
CV2	**1-141-299-11**	**CERAMIC 6PF**
CV3	**1-141-291-11**	**CERAMIC 20PF**
D1	**8-719-815-55**	**1S1555**
Q1	**8-729-122-63**	**2SA1226**
Q2	**8-729-101-25**	**2SC1009A**
Q3	**8-729-122-63**	**2SA1226**
Q4	**8-729-101-25**	**2SC1009A**
RV1	**1-228-464-00**	**METAL 500K**
RV2	**1-228-465-00**	**METAL 1M**
RV3	**1-228-457-00**	**METAL 2K**
RV4	**1-228-457-00**	**METAL 2K**
RV5	**1-228-460-00**	**METAL 20K**
PR-49 BOARD		
	1-561-707-00	POLARISING KEY
C10	**1-102-935-00**	**CERAMIC 2PF ±0.25PF 50V**
C22	**1-102-935-00**	**CERAMIC 2PF ±0.25PF 50V**
C38	**1-102-935-00**	**CERAMIC 2PF ±0.25PF 50V**
C53	**1-163-227-00**	**CERAMIC CHIP 10PF 5% 50V**
C54	**1-163-227-00**	**CERAMIC CHIP 10PF 5% 50V**
C55	**1-163-227-00**	**CERAMIC CHIP 10PF 5% 50V**
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	**8-719-815-55**	**1S1555**
D3	**8-719-815-55**	**1S1555**
D4	**8-719-815-55**	**1S1555**
D5	**8-719-100-03**	**1S2835**
D6	**8-719-100-05**	**1S2837**

Ref. No.	Parts No.	Description
D7	8-719-100-03	1S2835
D8	8-719-815-55	1S1555
D9	8-719-815-55	1S1555
D10	8-719-815-55	1S1555
D11	8-719-815-55	1S1555
D12	8-719-815-55	1S1555
D13	8-719-100-05	1S2837
IC1	8-741-130-50	BX1305: SONY
IC2	8-741-108-20	BX1082: SONY
IC3	8-759-920-01	SL3127C-DP: PLESSEY
IC4	8-759-700-95	NJM1496M: JRC
IC5	8-741-130-40	BX1304: SONY
IC6	8-741-108-20	BX1082: SONY
IC7	8-759-906-54	TL06CNS: TI
IC8	8-741-130-50	BX1305: SONY
IC9	8-741-108-20	BX1082: SONY
IC10	8-759-920-01	SL3127C-DP: PLESSEY
IC11	8-759-700-95	NJM1496M: JRC
IC12	8-741-130-40	BX1304: SONY
IC13	8-741-108-20	BX1082: SONY
IC14	8-741-130-50	BX1305: SONY
IC15	8-741-108-20	BX1082: SONY
IC16	8-759-920-01	SL3127C-DP: PLESSEY
IC17	8-759-700-95	NJM1496M: JRC
IC18	8-741-130-40	BX1304: SONY
IC19	8-741-108-20	BX1082: SONY
IC20	8-741-117-90	BX1179: SONY
IC21	8-741-117-90	BX1179: SONY
IC22	8-759-200-81	TC4053BF: TOSHIBA
IC23	8-759-200-88	TC4512BF: TOSHIBA
IC24	8-759-200-81	TC4053BF: TOSHIBA
IC25	8-759-200-68	TC4011BF: TOSHIBA
L1	1-408-450-21	MICRO 47
L2	1-408-450-21	MICRO 47
L3	1-408-450-21	MICRO 47
L4	1-408-450-21	MICRO 47
L5	1-408-450-21	MICRO 47
L6	1-408-450-21	MICRO 47
L7	1-408-450-21	MICRO 47
L8	1-408-450-21	MICRO 47
L9	1-408-450-21	MICRO 47
L10	1-408-450-21	MICRO 47
L11	1-408-450-21	MICRO 47
L12	1-408-450-21	MICRO 47
Q1	8-729-800-43	2SK152-3
Q2	8-729-800-43	2SK152-3
Q3	8-729-800-43	2SK152-3
Q5	8-729-101-25	2SC1009A
Q6	8-729-122-63	2SA1226
Q7	8-729-100-66	2SC1623
Q8	8-729-122-63	2SA1226
Q9	8-729-122-63	2SA1226
Q10	8-729-122-63	2SA1226
Q11	8-729-100-66	2SC1623
Q12	8-729-100-66	2SC1623
Q13	8-729-122-63	2SA1226
Q15	8-729-122-63	2SA1226
Q16	8-729-101-25	2SC1009A
Q17	8-729-101-25	2SC1009A
Q18	8-729-101-25	2SC1009A
Q19	8-729-101-25	2SC1009A
Q20	8-729-800-43	2SK152-3
Q21	8-729-800-43	2SK152-3
Q22	8-759-800-43	2SK152-3
Q24	8-729-101-25	2SC1009A
Q25	8-729-122-63	2SA1226
Q26	8-729-100-66	2SC1623
Q27	8-729-122-63	2SA1226
Q28	8-729-122-63	2SA1226
Q29	8-729-122-63	2SA1226
Q30	8-729-100-66	2SC1623
Q31	8-729-100-66	2SC1623
Q32	8-729-101-25	2SC1009A
Q33	8-829-122-63	2SA1226
Q34	8-729-122-63	2SA1226
Q35	8-729-101-25	2SC1009A
Q36	8-729-101-25	2SC1009A
Q37	8-729-101-25	2SC1009A
Q38	8-729-800-43	2SK152-3
Q39	8-729-800-43	2SK152-3
Q40	8-729-800-43	2SK152-3
Q42	8-729-101-25	2SC1009A
Q43	8-729-122-63	2SA1226
Q44	8-729-100-66	2SC1623

Ref. No.	Parts No.	Description
Q45	8-729-122-63	2SA1226
Q46	8-729-122-63	2SA1226
Q47	8-729-122-63	2SA1226
Q48	8-729-100-66	2SC1623
Q49	8-729-100-66	2SC1623
Q50	8-729-122-63	2SA1226
Q51	8-729-122-63	2SA1226
Q52	8-729-101-25	2SC1009A
Q53	8-729-101-25	2SC1009A
Q54	8-729-101-25	2SC1009A
Q57	8-729-101-25	2SC1009A
Q58	8-729-101-25	2SC1009A
Q59	8-729-101-25	2SC1009A
Q60	8-729-101-25	2SC1009A
Q61	8-729-101-25	2SC1009A
Q62	8-729-101-25	2SC1009A
Q63	8-729-122-63	2SA1226
Q64	8-729-122-63	2SA1226
Q65	8-729-122-63	2SA1226
Q66	8-729-122-63	2SA1226
Q67	8-729-122-63	2SA1226
Q68	8-729-122-63	2SA1226
Q69	8-729-101-25	2SC1009A
Q70	8-729-101-25	2SC1009A
Q71	8-729-122-63	2SA1226
Q72	8-729-101-25	2SC1009A
Q73	8-729-122-63	2SA1226
RV1	1-228-457-00	METAL 2K
RV2	1-224-931-00	METAL 20K
RV3	1-228-457-00	METAL 2K
RV4	1-224-926-00	METAL 500
RV5	1-228-459-00	METAL 10K
RV6	1-228-456-00	METAL 1K
RV7	1-224-930-00	METAL 10K
RV8	1-224-926-00	METAL 500
RV9	1-224-931-00	METAL 20K
RV10	1-228-457-00	METAL 2K
RV11	1-224-926-00	METAL 500
RV12	1-228-459-00	METAL 10K
RV13	1-228-456-00	METAL 1K
RV14	1-224-930-00	METAL 10K
RV15	1-224-926-00	METAL 500
RV16	1-224-931-00	METAL 20K
RV17	1-228-457-00	METAL 2K
RV18	1-224-926-00	METAL 500
RV19	1-228-459-00	METAL 10K
RV20	1-228-456-00	METAL 1K
RV21	1-224-930-00	METAL 10K
RV22	1-224-926-00	METAL 500
RV23	1-228-457-00	METAL 2K
RV24	1-228-457-00	METAL 2K
RV25	1-228-456-00	METAL 1K
RV26	1-228-456-00	METAL 1K
RV27	1-228-456-00	METAL 1K
RV28	1-228-456-00	METAL 1K
RV29	1-228-460-00	METAL 20K
RV30	1-228-461-00	METAL 50K
S1	1-554-076-00	SLIDE
S2	1-554-076-00	SLIDE
S3	1-554-076-00	SLIDE
THP1	1-800-378-00	S-150
THP2	1-800-378-00	S-150
THP3	1-800-378-00	S-150

PS-53 BOARD

	A-7513-126-A	MOUNTED CIRCUIT BOARD "PS-53"
	1-560-707-00	POLARISING KEY
C1	1-161-013-00	CERAMIC 0.01 10% 25V
C6	1-130-192-00	FILM 0.22 5% 100V
C7	1-124-150-11	ELECT 330 20% 25V
C10	1-161-473-00	CERAMIC 0.01 10% 50V
C13	1-130-193-00	FILM 0.47 5% 100V

Ref. No.	Parts No.	Description
C15	1-130-475-00	MYLAR 0.0022 5% 50V
C16	1-161-473-00	CERAMIC 0.01 10% 50V
C18	1-161-013-00	CERAMIC 0.01 10% 25V
C20	1-130-193-00	FILM 0.47 5% 100V
C21	1-130-193-00	FILM 0.47 5% 100V
C26	1-161-013-00	CERAMIC 0.01 10% 25V
C30	1-130-193-00	FILM 0.47 5% 100V
C37	1-161-013-00	CERAMIC 0.01 10% 25V
C51	1-161-481-00	CERAMIC 0.047 10% 50V
C52	1-124-480-11	ELECT 470 20% 25V
C53	1-130-499-00	MYLAR 0.22 5% 50V
C54	1-130-193-00	FILM 0.47 5% 100V
C57	1-161-473-00	CERAMIC 0.01 10% 50V
C59	1-124-666-11	ELECT 4.7 20% 250V
C60	1-124-666-11	ELECT 4.7 20% 250V
C65	1-106-367-00	MYLAR 0.01 5% 200V
C66	1-124-341-00	ELECT 1 20% 200V
C67	1-124-667-11	ELECT 10 20% 100V
C71	1-124-485-11	ELECT 330 20% 35V
C74	1-124-667-11	ELECT 10 20% 100V
C75	1-124-668-11	ELECT 2.2 20% 200V
C76	1-124-344-11	ELECT 22 20% 100V
C81	1-124-344-11	ELECT 22 20% 100V
C86	1-123-382-00	ELECT 3.3 20% 100V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	8-719-815-55	1S1555
D2	8-719-911-53	U05G
D3	8-719-981-00	ERC81-004
D4	8-719-931-08	EQB01-08
D5	8-719-191-07	RD9.1E
D6	8-719-981-00	ERC81-004
D7	8-719-162-07	RD6.2E-B
D8	8-719-162-07	RD6.2E-B
D9	8-719-162-07	RD6.2E-B
D10	8-719-162-07	RD6.2E-B
D11	8-719-815-55	1S1555
D12	8-719-982-04	ERB81-004
D13	8-719-982-04	ERB81-004
D14	8-719-982-04	ERB81-004
D15	8-719-982-04	ERB81-004

Ref. No.	Parts No.	Description
D16	8-719-182-07	RD8.2E-B
D17	8-719-300-76	RH-1A
D18	8-719-300-76	RH-1A
D19	8-719-300-76	RH-1A
D20	8-719-300-76	RH-1A
D21	8-719-815-55	1S1555
D22	8-719-815-55	1S1555
D23	8-719-815-55	1S1555
D24	8-719-815-55	1S1555
D25	8-719-300-76	RH-1A
D26	8-719-300-76	RH-1A
D27	8-719-300-76	RH-1A
D28	8-719-982-04	ERB81-004
D29	8-719-982-04	ERB81-004
D30	8-719-982-04	ERB81-004
D31	8-719-815-55	1S1555
D32	8-719-815-55	1S1555
IC1	8-759-916-04	TL094CNS: TI
IC2	8-759-905-80	AD580MH: ANALOG DEVICES
IC3	8-759-908-95	TL1451CNS: TI
IC4	8-759-906-53	TL062CPS: TI
IC5	8-759-101-54	μPC454D: NEC
IC6	8-759-101-54	μPC454D: NEC
IC7	8-759-906-53	TL062CPS: TI
IC8	8-759-708-09	NJM78L09A: JRC
IC9	8-759-700-68	NJM79L09A: JRC
IC10	8-759-278-18	TA78L018AP: TOSHIBA
IC11	8-759-278-07	TA78L007AP: TOSHIBA
IC12	8-759-708-05	NJM78L05A: JRC
L1	1-408-142-21	22.5
L2	1-408-549-00	150
L3	1-421-013-00	HOLIZONTAL CHOKE 25
L4	1-408-549-00	150
L5	1-421-013-00	HOLIZONTAL CHOKE 25
L6	1-421-013-00	HOLIZONTAL CHOKE 25
L7	1-408-142-21	22.5
L8	1-421-013-00	HOLIZONTAL CHOKE 25

Ref. No.	Parts No.	Description
Q1	8-729-178-54	2SC2785
Q2	8-729-113-33	2SB733-4
Q3	8-729-113-33	2SB733-4
Q4	8-729-177-32	2SD773-3
Q5	8-729-178-54	2SC2785
Q6	8-729-178-54	2SC2785
Q7	8-729-113-33	2SB733-4
Q8	8-729-113-33	2SB733-4
Q9	8-729-113-33	2SB733-4
Q10	8-729-178-54	2SC2785
Q11	8-729-113-33	2SB733-4
Q12	8-729-113-33	2SB733-4
Q13	8-729-113-33	2SB733-4
Q14	8-729-364-12	2SC641K
Q15	8-729-810-63	2SD1061-S
Q16	8-729-810-63	2SD1061-S
Q17	8-729-177-32	2SD773-3
Q18	8-729-255-12	2SC2551
Q19	8-729-255-12	2SC2551
Q20	8-729-178-54	2SC2785
Q21	8-729-113-33	2SB733-4
Q22	8-729-117-54	2SA1175
Q23	8-729-117-54	2SA1175
Q25	8-729-178-54	2SC2785
Q26	8-719-255-12	2SC2551
R9	1-216-519-11	METAL 10K 1% 1/10W
R10	1-216-519-11	METAL 10K 1% 1/10W
R52	1-216-522-11	METAL 3.9K 1% 1/10W
R53	1-216-523-11	METAL 1K 1% 1/10W
R57	1-216-521-11	METAL 5 1% 1/10W
R58	1-216-521-11	METAL 5 1% 1/10W
R60	1-216-521-11	METAL 5 1% 1/10W
R61	1-216-521-11	METAL 5 1% 1/10W
R63	1-216-521-11	METAL 5 1% 1/10W
R64	1-216-521-11	METAL 5 1% 1/10W
R77	1-215-492-00	METAL 910K 1% 1/6W
R79	1-214-968-00	METAL 1.5M 1% 1/4W
R80	1-214-968-00	METAL 1.5M 1% 1/4W
R87	1-215-478-00	METAL 240K 1% 1/6W
R89	1-215-473-00	METAL 150K 1% 1/6W
R94	1-216-520-11	METAL 100 1% 1/10W
R102	1-215-493-00	METAL 1M 1% 1/6W

Ref. No.	Parts No.	Description
RV1	1-224-936-00	METAL 500
RV2	1-224-936-00	METAL 500
RV3	1-224-936-00	METAL 500
RV4	1-230-097-00	METAL 100
RV5	1-230-097-00	METAL 100
RV6	1-230-097-00	METAL 100
RV7	1-224-936-00	METAL 500
T1	1-448-117-11	DC-DC CONVERTER

PS-54 BOARD

C1	1-130-456-00	FILM 0.022 20% 250V
C2	1-130-456-00	FILM 0.022 20% 250V
C3	1-125-398-00	ELECT 470 20% 200V
C4	1-125-398-00	ELECT 470 20% 200V
C5	1-123-984-00	ELECT 4.7 20% 250V
C6	1-123-984-00	ELECT 4.7 20% 250V
C7	1-108-849-00	MYLAR 0.1 10% 50V
C8	1-106-343-00	MYLAR 0.001 5% 200V
C9	1-123-310-00	ELECT 470 20% 10V
C11	1-130-473-00	MYLAR 0.0015 5% 50V
C12	1-130-814-00	FILM 0.01 5% 630V
C13	1-124-574-11	ELECT 3900 20% 16V
C14	1-124-574-11	ELECT 3900 20% 16V
C15	1-106-180-00	MYLAR 0.0022 10% 50V
C16	1-123-817-00	ELECT 22 20% 35V
C17	1-161-854-00	CERAMIC 0.0033 10% 50V
C18	1-161-888-00	CERAMIC 0.01 10% 50V
C19	1-161-483-00	CERAMIC 0.1 10% 50V
C21	1-130-802-00	FILM 0.022 10% 400V

Ref. No.	Parts No.	Description
CN1	1-564-977-11	RECEPTACLE 2P MALE
D1	8-719-000-02	BCR10AM-10L
D2	8-719-504-60	S4VB60
D3	8-719-815-85	1S1585
D4	8-719-122-07	RD22E-B
D5	8-719-815-85	1S1585
D6	8-719-115-07	RD15E-B
D7	8-719-900-95	V09G
D8	8-719-903-16	ESAC85-009
D9	8-719-903-16	ESAC85-009
D10	8-719-907-30	ERB84-009
D11	8-719-907-30	ERB84-009
D12	8-719-815-85	1S1585
D13	8-719-115-07	RD15E-B
D14	8-719-815-85	1S1585
F1	1-532-808-11	2A 250V
IC1	8-759-904-94	TL494CN: TI
IC2	8-759-103-93	μPC393C: NEC
L1	1-410-253-11	80
L2	1-408-549-00	150
Q1	8-729-902-41	2SC3318
Q2	8-729-902-41	2SC3318
Q3	8-729-177-43	2SD774-3
Q4	8-729-802-08	2SC3150
Q5	8-729-117-54	2SA1175
R1	1-244-929-00	CARBON 220K 5% 1/2W
R2	1-244-929-00	CARBON 220K 5% 1/2W
R3	1-244-929-00	CARBON 220K 5% 1/2W
R4	1-224-929-00	CARBON 220K 5% 1/2W
R5	1-247-083-00	CARBON 10 5% 1/4W
R6	1-247-083-00	CARBON 10 5% 1/4W
R7	1-247-694-11	CARBON 33 5% 1/4W
R8	1-207-639-00	WIREWOUND 330 10% 3W
R11	1-244-935-00	CARBON 390K 5% 1/2W
R12	1-246-511-00	CARBON 39K 5% 1/4W
R21	1-215-452-00	METAL 20K 1% 1/6W
R22	1-215-437-00	METAL 4.7K 1% 1/6W
R24	1-215-433-00	METAL 3.3K 1% 1/6W
R26	1-215-388-00	METAL 43 1% 1/6W
R31	1-205-627-00	CEMENTED 0.015 5W
RV1	1-224-927-00	METAL 1K
T1	1-421-468-00	LINE FILTER
T2	1-448-204-11	DC-DC CONVERTER
T3	1-437-085-00	DRIVE
T4	1-446-912-00	CONVERTER (SUB)

PS-55 BOARD

	1-553-188-11	HOLDER, FUSE
C1	1-161-896-11	CERAMIC 0.22 50V
C3	1-123-656-00	ELECT 1000 20% 10V
C4	1-124-142-00	ELECT 470 20% 10V
C5	1-124-559-51	ELECT 1000 20% 10V
C6	1-124-756-00	ELECT 10 20% 350V
C7	1-161-013-00	CERAMIC 0.01 10% 25V
C8	1-123-818-00	ELECT 22 20% 25V
C10	1-124-147-00	ELECT 47 20% 25V
C13	1-123-821-00	ELECT 47 20% 16V
C14	1-161-013-00	CERAMIC 0.01 10% 25V
C17	1-161-897-00	CERAMIC 0.33 50V

Ref. No.	Parts No.	Description
CN1	1-564-875-11	RECEPTACLE, 28P MALE
CN2	1-564-181-00	RECEPTACLE, 6P MALE
CN3	1-564-152-00	RECEPTACLE, 10P MALE
D1	8-719-139-07	RD3.9E-B
D2	8-719-102-52	1SZ52
D3	8-719-182-07	RD8.2E-B
D4	8-719-300-76	RH-1A
D5	8-719-156-07	RD5.6E-B
D6	8-719-124-07	RD24E-B
D7	8-719-124-07	RD24E-B
D8	8-719-815-55	1S1555
D9	8-719-156-07	RD5.6E-B
D11	8-719-815-55	1S1555
D12	8-719-142-07	RD2.2E-B
D13	8-719-910-92	HZ9A2L
D14	8-719-910-92	HZ9A2L
D16	8-719-923-48	1S2348H
IC1	8-759-900-64	TL064CN: TI
IC2	8-759-701-00	NJM7809K: JRC
Q1	8-729-882-52	2SB825-R
Q2	8-729-810-62	2SD1061-R
Q3	8-729-810-62	2SD1061-R
Q4	8-765-141-00	2SA911
Q5	8-765-141-00	2SA911
Q6	8-729-954-21	2SC2542
Q7	8-729-954-21	2SC2542
Q8	8-729-255-12	2SC2551
Q9	8-729-177-43	2SD774
R2	1-215-418-00	METAL 750 1% 1/6W
R7	1-215-447-00	METAL 12K 1% 1/6W
R8	1-215-449-00	METAL 15K 1% 1/6W
R15	1-244-933-00	CARBON 330K 5% 1/2W
R16	1-244-935-00	CARBON 390K 5% 1/2W
R29	1-244-839-00	CARBON 39 5% 1/2W
R33	1-246-429-00	CARBON 15 5% 1/4W
RV1	1-224-962-00	METAL 500
RV2	1-224-925-00	METAL 200

PS-90 BOARD

Ref. No.	Parts No.	Description
C1	1-130-455-00	FILM 0.01 20% 250V
C2	1-130-455-00	FILM 0.01 20% 250V
C3	1-161-734-00	CERAMIC 0.0022 20% 400V
C4	1-161-734-00	CERAMIC 0.0022 20% 400V
C5	1-125-397-00	ELECT 390 20% 200V
C6	1-125-397-00	ELECT 390 20% 200V
C7	1-125-397-00	ELECT 390 20% 200V
C8	1-125-397-00	ELECT 390 20% 200V
C9	1-130-473-00	MYLAR 0.0015 5% 50V
C11	1-130-814-00	FILM 0.01 5% 630V
C12	1-124-755-11	ELECT 3300 20% 16V
C13	1-130-499-00	MYLAR 0.22 5% 50V
C14	1-124-755-11	ELECT 3300 20% 16V
C15	1-130-499-00	MYLAR 1.22 5% 50V
C16	1-130-483-00	MYLAR 0.01 5% 50V
C17	1-123-618-00	22 20% 6.3V
C18	1-123-617-00	ELECT 10 20% 16V
C19	1-130-495-00	MYLAR 0.1 5% 50V
C20	1-130-495-00	MYLAR 0.1 5% 50V
C21	1-123-618-00	ELECT 22 20% 6.3V
C22	1-130-477-00	MYLAR 0.0033 5% 50V
C23	1-123-617-00	ELECT 10 20% 16V
CN1	1-564-760-11	RECEPTACLE, 5P MALE
	1-562-820-11	PULG HOUSING 5P
CN2	1-564-080-00	RECEPTACLE, 12P MALE
	1-508-944-00	**PIN**
	1-560-767-00	PLUG CONTACT
	1-561-178-00	PLUG HOUSING 12P
D1	**8-719-124-07**	**RD24E-B**
D2	**8-719-815-85**	**1S1585**
D3	**8-719-115-07**	**RD15E-B**
D4	**8-719-900-95**	**V09G**
D5	**8-719-300-63**	**LB-156**
D6	**8-719-923-48**	**1S2348H**
D7	**8-719-981-01**	**ERA81-004**
D8	**8-719-910-64**	**HZ6B1L**
IC1	**8-759-904-94**	**TL494CN: TI**
IC2	**8-759-103-93**	**μPC393C: NEC**

Ref. No.	Parts No.	Description
L1	1-459-215-00	120
L2	1-459-215-00	120
L3	1-410-253-11	80
L4	1-410-253-11	80
Q1	8-729-802-08	2SC3150
Q2	8-729-178-54	2SC2785
Q3	8-729-178-54	2SC2785
Q4	8-729-178-54	2SC2785
Q5	8-729-178-54	2SC2785
R1	1-244-929-00	CARBON 220K 5% 1/2W
R2	1-244-929-00	CARBON 220K 5% 1/2W
R3	1-244-933-00	CARBON 330K 5% 1/2W
R6	1-205-627-00	CEMENTED 0.015 5% 5W
R25	1-246-541-00	CARBON 680K 5% 1/4W
R29	1-244-921-00	CARBON 100K 5% 1/2W
T1	1-421-468-00	LINE FILTER
T2	1-446-912-00	CONVERTER (SUB)
T3	1-421-779-11	LINE FILTER

PS-96 BOARD

C1	1-123-618-00	ELECT 22 20% 6.3V
C2	1-130-495-00	MYLAR 0.1 5% 50V
C3	1-106-343-00	MYLAR 0.001 5% 200V
C4	1-123-872-00	ELECT 22 20% 400V
C5	1-124-665-11	ELECT 10 20% 200V
C6	1-124-665-11	ELECT 10 20% 200V
C7	1-124-755-11	ELECT 3300 20% 16V
C8	1-130-499-00	MYLAR 0.22 5% 50V
C9	1-102-114-00	CERAMIC 470PF 10% 50V
C10	1-124-480-11	ELECT 470 20% 25V

Ref. No.	Parts No.	Description
D1	8-719-000-02	BCR10AM-10L
D2	8-719-903-46	ESAD85-009
D3	8-719-903-46	ESAD85-009
D4	8-719-981-01	ERA81-004
D5	8-719-981-01	ERA81-004
D6	8-719-981-01	ERA81-004
D7	8-719-981-01	ERA81-004
D8	8-719-815-55	1S1555
F1	1-532-808-11	2A 250V
L1	1-421-329-00	10
L2	1-410-306-11	130
Q1	8-729-902-41	2SC3318
Q2	8-729-902-41	2SC3318
Q4	8-729-378-91	2SD789-3
Q5	8-729-378-91	2SD789-3
R4	1-205-657-00	CMENTED 150 5% 5W
R14	1-247-105-00	CARBON 82 5% 1/4W
T1	1-448-074-11	CONVERTER
T2	1-447-106-00	DRIVE

SG-85/85A BOARD

A-7513-134-A	MOUNTED CIRCUIT BOARD "SG-85" (NTSC)
A-7513-152-A	MOUNTED CIRCUIT BOARD "SG-85A" (PAL)
1-560-707-00	POLARISING KEY

Ref. No.	Parts No.	Description
C5	1-107-077-00	MICA 47PF 5% 50V (NTSC)
C5	1-107-075-00	MICA 39PF 5% 50V (PAL)
C15	1-163-251-00	CERAMIC CHIP 100PF 5% 50V (NTSC)
C15	1-163-243-00	CERAMIC CHIP 47PF 5% 50V (PAL)
C17	1-163-133-00	CERAMIC CHIP 470PF 5% 50V
C18	1-163-133-00	CERAMIC CHIP 470PF 5% 50V
C20	1-163-133-00	CERAMIC CHIP 470PF 5% 50V
C24	1-161-013-00	CERAMIC 0.01 10% 25V
C26	1-161-013-00	CERAMIC 0.01 10% 25V
C28	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C29	1-163-141-00	CERAMIC CHIP 0.001 5% 50V
C30	1-161-013-00	CERAMIC 0.01 10% 25V
C34	1-124-169-00	ELECT 100 20% 10V
C35	1-161-476-00	CERAMIC 51PF 5% 50V (NTSC)
C35	1-107-075-00	MICA 39PF 5% 50V (PAL)
C36	1-161-476-00	CERAMIC 51PF 5% 50V (NTSC)
C36	1-107-075-00	MICA 39PF 5% 50V (PAL)
C50	1-161-013-00	CERAMIC 0.01 10% 25V
C51	1-161-463-00	CERAMIC 220PF 5% 50V (NTSC)
C51	1-161-461-00	CERAMIC 150PF 5% 50V (PAL)
C57	1-161-470-00	CERAMIC 820PF 5% 50V
C59	1-161-013-00	CERAMIC 0.01 10% 25V
C60	1-161-469-00	CERAMIC 680PF 5% 50V
C61	1-163-137-00	CERMAIC CHIP 680PF 5% 50V
C62	1-163-255-00	CERAMIC CHIP 150PF 5% 50V
C64	1-163-137-00	CERAMIC CHIP 680PF 5% 50V
C71	1-163-247-00	CERAMIC CHIP 68PF 5% 50V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	8-719-101-25	1SS123 (NTSC)
D2	8-719-100-05	1S2837
D3	8-719-100-03	1S2835
D4	8-719-100-03	1S2835
D5	8-719-100-03	1S2835
D6	8-719-100-05	1S2837
D7	8-719-101-23	1SS123
D8	8-719-101-23	1SS123
D9	8-719-101-23	1SS123
D10	8-719-101-23	1SS123
FL1	1-235-573-11	LOW PASS 3.58MHz
FL2	1-235-574-11	LOW PASS 1MHz

Ref. No.	Parts No.	Description
IC1	8-759-200-81	TC4053BF: TOSHIBA
IC2	8-759-001-21	MC74HC86N: MOTOROLA
IC3	8-759-901-23	SN74LS123N: TI
IC4	8-759-906-53	TL062CPS: TI
IC5	8-759-906-53	TL062CPS: TI
IC6	8-759-200-81	TC4053BF: TOSHIBA
IC7	8-759-200-81	TC4053BF: TOSHIBA
IC8	8-757-731-00	CX773A: SONY
IC9	8-749-910-40	BX1040: SONY
IC10	8-759-101-12	μPC311G2: NEC
IC11	8-759-906-53	TL062CPS: TI
IC12	8-757-903-00	CX7903: SONY
IC13	8-759-203-08	TC74HC221P: TOSHIBA
IC14	8-759-907-21	CX7969: SONY
IC15	8-759-200-70	TC4015BF: TOSHIBA
IC16	8-759-200-70	TC4015BF: TOSHIBA
IC17	8-759-001-33	MC74HC158N: MOTOROLA
IC18	8-759-001-33	MC74HC158N: MOTOROLA (NTSC)
IC19	8-759-200-79	TC4049BF: TOSHIBA
IC20	8-759-200-67	TC4001BF: TOSHIBA
IC21	8-759-200-68	TC4011BF: TOSHIBA
IC22	8-759-200-80	TC4050BF: TOSHIBA
IC23	8-759-201-53	TC40H000F: TOSHIBA
IC24	8-759-200-68	TC4011BF: TOSHIBA
IC25	8-759-200-79	TC4049BF: TOSHIBA
IC26	8-759-200-68	TC4011BF: TOSHIBA
L10	1-408-150-00	MICRO 22
L11	1-408-150-00	MICRO 22
Q1	8-729-162-44	2SB624-BV4
Q2	8-729-122-63	2SA1226
Q3	8-729-101-25	2SC1009A
Q4	8-729-101-25	2SC1009A
Q5	8-729-101-25	2SC1009A
Q6	8-729-122-63	2SA1226 (NTSC)
Q7	8-729-101-25	2SC1009A (NTSC)
Q8	8-729-162-44	2SB624-BV4
Q9	8-729-162-44	2SB624-BV4
Q10	8-729-101-25	2SC1009A
Q11	8-729-175-73	2SC2757
Q12	8-729-109-44	2SK94
Q13	8-729-122-63	2SA1226
Q14	8-729-101-25	2SC1009A
Q15	8-729-122-63	2SA1226

Ref. No.	Parts No.	Description
Q16	8-729-122-63	2SA1226
Q17	8-729-122-63	2SA1226
Q18	8-729-122-63	2SA1226
Q19	8-729-101-25	2SC1009A
R96	1-215-481-00	METAL 330K 1% 1/6W
RV1	1-228-475-00	METAL 20K
RV2	1-228-475-00	METAL 20K
RV3	1-228-459-00	METAL 10K (NTSC)
RV4	1-228-459-00	METAL 10K
RV5	1-228-473-00	METAL 5K
RV6	1-228-476-00	METAL 50K
RV7	1-228-462-00	METAL 100K
S1	1-553-439-00	TOGGLE
S2	1-554-076-00	SLIDE
S3	1-554-076-00	SLIDE
S4	1-553-439-00	TOGGLE
S6	1-553-438-00	TOGGLE (NTSC)
S7	1-554-027-00	ROTARY
S8	1-553-439-00	TOGGLE
TH1	1-806-166-00	(NTSC)
X1	1-567-084-00	14.31818MHz (NTSC)
X1	1-567-112-00	17.734475MHz (PAL)
X2	1-567-085-00	14.31818MHz (NTSC)
X2	1-567-086-00	14.18750MHz (PAL)

Ref. No.	Parts No.	Description
SH-14 BOARD		
	A-7513-129-A	MOUNTED CIRCUIT BOARD "SH-14"
	1-560-707-00	POLARISING KEY
C3	1-163-259-00	CERAMIC CHIP 220PF 5% 50V
C18	1-130-900-00	FILM 0.1 5% 100V
C29	1-163-243-00	CERAMIC CHIP 47PF 5% 50V
C34	1-163-251-00	CERAMIC CHIP 100PF 5% 50V
C45	1-130-192-00	FILM 0.22 5% 100V
C46	1-130-192-00	FILM 0.22 5% 100V
C47	1-130-192-00	FILM 0.22 5% 100V
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	8-719-100-05	1S2837
D2	8-719-101-47	RD4.7EL2
D3	8-719-100-05	1S2837
D4	8-719-100-05	1S2837
D5	8-719-100-05	1S2837
D6	8-719-100-05	1S2837
D7	8-719-101-47	RD4.7EL2
D9	8-719-100-05	1S2837
IC1	8-759-908-92	TL084CNS: TI
IC2	8-759-906-54	TL064CNS: TI
IC3	8-759-908-92	TL084CNS: TI
IC4	8-759-906-54	TL064CNS: TI
IC5	8-759-205-47	TC4040BF: TOSHIBA
IC6	8-759-605-18	CX518: SONY
IC7	8-759-906-53	TL062CPS: TI
IC8	8-759-100-93	μPC393G2: NEC
IC9	8-759-200-68	TC4011BF: TOSHIBA
IC10	8-741-117-90	BX1179: SONY
IC11	8-741-117-90	BX1179: SONY
IC12	8-759-906-54	TL064CNS: TI
IC13	8-759-908-17	TL082CPS: TI

Ref. No.	Parts No.	Description
Q1	8-729-100-66	2SC1623
Q2	8-729-122-63	2SA1226
Q3	8-729-122-63	2SA1226
Q4	8-729-122-63	2SA1226
Q5	8-729-122-63	2SA1226
Q6	8-729-100-66	2SC1623
Q7	8-729-100-66	2SC1623
Q8	8-729-100-66	2SC1623
Q9	8-729-100-66	2SC1623
Q10	8-729-100-66	2SC1623
Q11	8-729-100-66	2SC1623
Q12	8-729-100-66	2SC1623
Q13	8-729-104-45	2SJ44
Q14	8-729-100-66	2SC1623
Q15	8-729-100-66	2SC1623
Q16	8-729-100-66	2SC1623
Q17	8-729-100-66	2SC1623
Q18	8-729-100-66	2SC1623
Q19	8-729-100-66	2SC1623
Q23	8-729-109-44	2SK94
Q24	8-729-109-44	2SK94
Q25	8-729-109-44	2SK94
Q26	8-729-101-25	2SC1009A
Q27	8-729-100-66	2SC1623
Q28	8-729-100-66	2SC1623
Q29	8-729-100-66	2SC1623
Q30	8-729-162-44	2SB624-BV4
Q31	8-729-100-66	2SC1623
Q32	8-729-122-63	2SA1226
Q33	8-729-109-44	2SK94
Q34	8-729-109-44	2SK94
Q35	8-729-109-44	2SK94
Q36	8-719-100-66	2SC1623
R182	1-247-696-11	CARBON 47 5% 1/4W
R209	1-215-471-00	METAL 120K 1% 1/6W
R210	1-215-471-00	METAL 120K 1% 1/6W
R211	1-215-471-00	METAL 120K 1% 1/6W
RV1	1-228-458-00	METAL 5K
RV2	1-228-458-00	METAL 5K
RV3	1-228-458-00	METAL 5K
RV4	1-228-477-00	METAL 100K
RV5	1-228-477-00	METAL 100K

Ref. No.	Parts No.	Description
RV6	1-228-477-00	METAL 100K
RV7	1-228-462-00	METAL 100K
RV8	1-228-462-00	METAL 100K
RV9	1-228-462-00	METAL 100K
RV10	1-228-477-00	METAL 100K
RV11	1-228-477-00	METAL 100K
RV12	1-228-477-00	METAL 100K
RV13	1-228-462-00	METAL 100K
RV14	1-228-461-00	METAL 50K
RV15	1-228-461-00	METAL 50K
RV16	1-228-459-00	METAL 10K
RV17	1-228-462-00	METAL 100K
RV18	1-228-461-00	METAL 50K
RV19	1-228-461-00	METAL 50K
RV20	1-228-459-00	METAL 10K
RV21	1-228-462-00	METAL 100K
RV22	1-228-461-00	METAL 50K
RV23	1-228-461-00	METAL 50K
RV24	1-228-459-00	METAL 10K
RV25	1-228-477-00	METAL 100K
RV26	1-228-477-00	METAL 100K
RV27	1-228-477-00	METAL 100K
RV28	1-228-462-00	METAL 100K
RV29	1-228-462-00	METAL 100K
RV30	1-228-462-00	METAL 100K
RV31	1-228-477-00	METAL 100K
RV32	1-228-477-00	METAL 100K
RV33	1-228-477-00	METAL 100K
RV34	1-228-462-00	METAL 100K
RV35	1-228-462-00	METAL 100K
RV36	1-228-462-00	METAL 100K
RV37	1-228-463-00	METAL 200K
RV38	1-228-461-00	METAL 50K
RV39	1-228-461-00	METAL 50K
RV40	1-228-459-00	METAL 10K
RV41	1-228-463-00	METAL 200K
RV42	1-228-461-00	METAL 50K
RV43	1-228-461-00	METAL 50K
RV44	1-228-463-00	METAL 200K
RV45	1-228-459-00	METAL 10
RV46	1-228-461-00	METAL 50K
RV47	1-228-461-00	METAL 50K
RV48	1-228-459-00	METAL 10K
RV49	1-228-478-11	METAL 200K
RV50	1-228-478-11	METAL 200K

Ref. No.	Parts No.	Description
RV51	**1-228-478-11**	**METAL 200K**
RV52	**1-228-463-00**	**METAL 200K**
RV53	**1-228-463-00**	**METAL 200K**
RV54	**1-228-463-00**	**METAL 200K**
RV58	**1-228-457-00**	**METAL 2K**
S1	**1-553-439-00**	**TOGGLE**

SV-56 BOARD

	A-7513-147-A	MOUNTED CIRCUIT BOARD "SV-56"
C3	**1-163-251-00**	**CERAMIC CHIP 100PF 5% 50V**
C8	**1-124-271-00**	**ELECT 1 20% 50V**
C9	**1-163-251-00**	**CERAMIC CHIP 100PF 5% 50V**
C13	**1-124-271-00**	**ELECT 1 20% 50V**
C15	**1-124-148-00**	**ELECT 100 20% 25V**
CN1	1-564-153-00	RECEPTACLE, 12P MALE
CN2	1-564-154-00	RECEPTACLE, 14P MALE
CN3	1-564-152-00	RECEPTACLE, 10P MALE
CN4	1-506-467-11	RECEPTACLE, 2P MALE
CN5	1-506-467-11	RECEPTACLE, 2P MALE
D1	**8-719-101-60**	**RD6.2EL1**
D2	**8-719-101-40**	**RD3.9EL1**
D3	**8-719-100-03**	**1S2835**
IC1	**8-759-200-81**	**TC4053BF: TOSHIBA**
IC2	**8-759-200-81**	**TC4053BF: TOSHIBA**
IC3	**8-759-100-94**	**μPC358G2: NEC**
IC4	**8-741-123-40**	**BX1234: SONY**
IC5	**8-759-101-12**	**μPC311G2: NEC**
IC6	**8-759-200-80**	**TC4050BF: TOSHIBA**
Q1	**8-729-100-66**	**2SC1623**

Ref. No.	Parts No.	Description

SW-10 BOARD

	A-7520-187-A	MOUNTED CIRCUIT BOARD "SW-10"
CN1	1-506-482-11	RECEPTACLE, 3P MALE
	1-562-148-11	PLUG HOUSING 3P
	1-564-681-11	PLUG CONTACT
CN2	1-506-482-11	RECEPTACLE, 3P MALE
CN3	1-506-481-11	RECEPTACLE, 2P MALE
IC1	**8-759-200-79**	**TC4049BF: TOSHIBA**
Q1	**8-729-108-54**	**2SC2785**
Q2	**8-729-108-54**	**2SC2785**
S1	**1-570-222-11**	**PUSH**
S2	**1-570-222-11**	**PUSH**

SW-11 BOARD

	1-615-133-11	PRINTED CIRCUIT BOARD "SW-11"
CN1	1-506-482-11	RECEPTACLE, 3P MALE
S1	**1-570-170-12**	**PUSH**

Ref. No.	Parts No.	Description

SW-12 BOARD

	1-615-039-11	PRINTED CIRCUIT BOARD "SW-12"
CN1	1-506-485-11	RECEPTACLE, 6P MALE
S1	**1-570-169-12**	**PUSH**

SW-79 BOARD

	1-615-035-11	PRINTED CIRCUIT BOARD "SW-79"
RV1	**1-228-458-00**	**METAL 5K**
RV2	**1-228-458-00**	**METAL 5K**

SWB-1 BOARD

	1-615-134-11	PRINTED CIRCUIT BOARD "SWB-1"
CN1	1-506-487-11	RECEPTACLE, 8P MALE
S1	**1-553-629-00**	**TOGGLE**
S2	**1-553-629-00**	**TOGGLE**
S3	**1-553-629-00**	**TOGGLE**
S4	**1-553-629-00**	**TOGGLE**
S5	**1-553-629-00**	**TOGGLE**
S6	**1-553-629-00**	**TOGGLE**

Ref. No.	Parts No.	Description

VA-18 BOARD

	A-7513-119-A	MOUNTED CIRCUIT BOARD "VA-18"
	1-560-707-00	POLARISING KEY
C9	**1-163-251-00**	**CERAMIC CHIP 100PF 5% 50V**
C23	**1-163-251-00**	**CERAMIC CHIP 100PF 5% 50V**
C37	**1-163-251-00**	**CERAMIC CHIP 100PF 5% 50V**
CN1	1-564-852-11	RECEPTACLE, 60P MALE
D1	**8-719-815-55**	**1S1555**
D2	**8-719-815-55**	**1S1555**
D3	**8-719-815-55**	**1S1555**
D4	**8-719-815-55**	**1S1555**
D5	**8-719-100-05**	**1S2837**
D7	**8-719-100-03**	**1S2835**
D8	**8-719-100-03**	**1S2835**
D9	**8-719-100-03**	**1S2835**
IC1	**8-741-108-20**	**BX1082: SONY**
IC2	**8-759-700-95**	**NJM1496M: RCA**
IC3	**8-741-108-20**	**BX1082: SONY**
IC4	**8-741-108-20**	**BX1082: SONY**
IC5	**8-759-700-95**	**NJM1496M: RCA**
IC6	**8-741-108-20**	**BX1082: SONY**
IC7	**8-741-108-20**	**BX1082: SONY**
IC8	**8-759-700-95**	**NJM1496M: RCA**
IC9	**8-741-108-20**	**BX1082: SONY**
IC10	**8-759-200-86**	**TC40174BF: TOSHIBA**
IC11	**8-759-200-81**	**TC4053BF: TOSHIBA**
IC12	**8-759-200-81**	**TC4053BF: TOSHIBA**
IC13	**8-759-200-81**	**TC4053BF: TOSHIBA**
IC14	**8-759-906-54**	**TL064CNS: TI**

Ref. No.	Parts No.	Description
L1	1-408-450-21	MICRO 47
L2	1-408-450-21	MICRO 47
L3	1-408-450-21	MICRO 47
L4	1-408-450-21	MICRO 47
L5	1-408-450-21	MICRO 47
L6	1-408-450-21	MICRO 47
L7	1-408-450-21	MICRO 47
L8	1-408-450-21	MICRO 47
L9	1-408-148-00	MICRO 10
L10	1-408-148-00	MICRO 10
L11	1-408-148-00	MICRO 10
Q1	8-729-101-25	2SC1009A
Q2	8-729-802-43	2SK125-3
Q3	8-729-802-43	2SK125-3
Q4	8-729-802-43	2SK125-3
Q5	8-729-802-43	2SK125-3
Q6	8-729-101-25	2SC1009A
Q7	8-729-122-63	2SA1226
Q8	8-729-122-63	2SA1226
Q9	8-729-101-25	2SC1009A
Q10	8-729-101-25	2SC1009A
Q11	8-729-802-43	2SK125-3
Q12	8-729-802-43	2SK125-3
Q13	8-729-802-43	2SK125-3
Q14	8-729-122-63	2SA1226
Q15	8-729-122-63	2SA1226
Q16	8-729-122-63	2SA1226
Q17	8-729-101-25	2SC1009A
Q18	8-729-101-25	2SC1009A
Q19	8-729-101-25	2SC1009A
Q20	8-729-122-63	2SA1226
Q21	8-729-802-43	2SK125-3
Q22	8-729-802-43	2SK125-3
Q23	8-729-122-63	2SA1226
Q24	8-729-122-63	2SA1226
Q25	8-729-101-25	2SC1009A
Q27	8-729-101-25	2SC1009A
Q28	8-729-802-43	2SK125-3
Q29	8-729-802-43	2SK125-3
Q30	8-729-802-43	2SK125-3
Q31	8-729-802-43	2SK125-3

Ref. No.	Parts No.	Description
Q32	8-729-101-25	2SC1009A
Q33	8-729-122-63	2SA1226
Q34	8-729-122-63	2SA1226
Q35	8-729-101-25	2SC1009A
Q36	8-729-101-25	2SC1009A
Q37	8-729-802-43	2SK125-3
Q38	8-729-802-43	2SK125-3
Q39	8-729-802-43	2SK125-3
Q40	8-729-122-63	2SA1226
Q41	8-729-122-63	2SA1226
Q42	8-729-122-63	2SA1226
Q43	8-729-101-25	2SC1009A
Q44	8-729-101-25	2SC1009A
Q45	8-729-101-25	2SC1009A
Q46	8-729-122-63	2SA1226
Q47	8-729-802-43	2SK125-3
Q48	8-729-802-43	2SK125-3
Q49	8-729-122-63	2SA1226
Q50	8-729-122-63	2SA1226
Q51	8-729-101-25	2SC1009A
Q53	8-729-101-25	2SC1009A
Q54	8-729-802-43	2SK125-3
Q56	8-729-802-43	2SK125-3
Q57	8-729-802-43	2SK125-3
Q58	8-729-101-25	2SC1009A
Q59	8-729-122-63	2SA1226
Q60	8-729-122-63	2SA1226
Q61	8-729-101-25	2SC1009A
Q62	8-729-101-25	2SC1009A
Q63	8-729-802-43	2SK125-3
Q64	8-729-802-43	2SK125-3
Q65	8-729-802-43	2SK125-3
Q66	8-729-122-63	2SA1226
Q67	8-729-122-63	2SA1226
Q68	8-729-122-63	2SA1226
Q69	8-729-101-25	2SC1009A
Q70	8-729-101-25	2SC1009A
Q71	8-729-101-25	2SC1009A
Q72	8-729-122-63	2SA1226
Q73	8-729-802-43	2SK125-3
Q74	8-729-802-43	2SK125-3
Q75	8-729-122-63	2SA1226
Q76	8-729-122-63	2SA1226
Q77	8-729-101-25	2SC1009A
Q79	8-729-101-25	2SC1009A

Ref. No.	Parts No.	Description
RV1	1-224-928-00	METAL 2K
RV2	1-228-459-00	METAL 10K
RV3	1-228-462-00	METAL 100K
RV4	1-228-460-00	METAL 20K
RV5	1-224-931-00	METAL 20K
RV6	1-224-928-00	METAL 2K
RV7	1-228-459-00	METAL 10K
RV8	1-228-462-00	METAL 100K
RV9	1-228-460-00	METAL 20K
RV10	1-224-931-00	METAL 20K
RV11	1-224-928-00	METAL 2K
RV12	1-228-459-00	METAL 10K
RV13	1-228-462-00	METAL 100K
RV14	1-228-460-00	METAL 20K
RV15	1-224-931-00	METAL 20K
S1	1-553-989-00	SLIDE

VR-11 BOARD

Ref. No.	Parts No.	Description
	1-615-132-11	PRINTED CIRCUIT BOARD "VR-11"
CN1	1-506-485-11	RECEPTACLE, 6P MALE
RV1	1-224-981-41	METAL 5K
RV2	1-224-981-41	METAL 5K
RV3	1-224-981-41	METAL 5K
RV4	1-224-981-41	METAL 5K

Ref. No.	Parts No.	Description

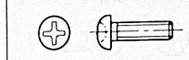
VR-30 BOARD

Ref. No.	Parts No.	Description
	1-615-803-11	PRINTED CIRCUIT BOARD "VR-30"
CN1	1-506-472-11	RECEPTACLE, 7P MALE
RV1	1-224-862-11	RES, VER, SOLID 10K
RV2	1-224-862-11	RES, VER, SOLID 10K

Ref. No.	Parts No.	Description
FRAME		
	A-7420-099-A	PANEL (LEFT) ASSY, SIDE
	A-7420-100-A	PANEL (RIGHT) ASSY, SIDE
	A-7580-015-A	**REG (A) ASSY**
	A-7580-016-A	**REG (B) ASSY**
	A-7603-055-A	PANEL (A) ASSY, CONNECTOR (PAL)
	A-7603-056-A	PANEL (A) ASSY, CONNECTOR
	A-7603-057-A	PANEL (B) ASSY, CONNECTOR
	A-7603-058-A	PANEL (B) ASSY, CONNECTOR (PAL)
	A-7605-061-A	PANEL (B) ASSY, SWITCH
	A-7611-004-A	**DY ASSY**
	1-506-471-11	RECEPTACLE, 6P MALE
	A-7615-164-A	AUTO ASSY
	A-7615-165-A	IF ASSY
	1-517-075-00	**SOKET, LAMP**
	1-553-188-11	HOLDER, FUSE
	1-935-932-11	VF HARNESS
CN118	**1-562-989-11**	**RECEPTACLE, 25P FEMALE**
	1-562-580-11	PLUG CONTACT
	1-935-933-11	ADP HARNESS
	1-935-953-11	LENS-A HARNESS
	1-935-936-11	AC-SW HARNESS
	1-936-082-11	**TUBE SOCKET, R**
	1-936-082-21	**TUBE SOCKET, G**
	1-936-082-31	**TUBE SOCKET, B**
	1-936-083-11	COIL R
	1-936-083-21	COIL G
	1-936-083-31	COIL B
BL101	1-519-376-11	BIAS, LAMP
CN101	1-562-889-11	RECEPTACLE, 3P "UTILITY"
CN102	1-560-494-00	RECEPTACLE, BNC "PROMPT OUT"
CN103	1-560-494-00	RECEPTACLE, BNC "RET OUT"
CN104	1-560-494-00	RECEPTACLE, BNC "EXT VF OUT"
CN105	1-560-494-00	RECEPTACLE, BNC "VIDEO OUT"
CN106	1-560-494-00	RECEPTACLE, BNC "REF"
CN107	1-509-184-31	RECEPTACLE, 3P FEMALE "MIC IN CH-1"
CN108	1-509-184-31	RECEPTACLE, 3P FEMALE "MIC IN CH-2"
CN109	1-562-782-21	RECEPTACLE, 10P FEMALE "TRACKER"
CN110	1-562-221-21	RECEPTACLE, 12P FEMALE "REMOTE"
CN111	1-561-233-21	RECEPTACLE, 6P FEMALE "RET CONTROL"
CN112	1-561-376-00	RECEPTACLE, 4P FEMALE "SCRIPT"
CN113	1-507-676-00	JACK, PHONE "ENG INCOM"
CN114	1-507-676-00	JACK, PHONE "ENG RGM"
CN115	1-507-676-00	JACK, PHONE "PRODUCE INCOM"

Ref. No.	Parts No.	Description
CN116	**1-507-676-00**	**JACK, PHONE "PRODUCE PGM"**
CN117	1-562-945-11	RECEPTACLE, 50P FEMALE
CN119	1-509-892-00	RECEPTACLE, 36P FEMALE
CN120	1-535-072-00	PLUG CONTACT FEMALE (4PCS)
CN121	1-506-508-00	PLUG HOUSING 4P
	1-535-070-11	PLUG CONTACT
D101	8-719-907-03	BD703G "POWER"
D102	8-719-907-01	BD701R "AUTO"
M101	1-541-297-11	150mA 12V "FAN"
PL101	1-518-411-00	"RIGHT SIDE TALLY"
PL102	1-518-411-00	"LEFT SIDE TALLY"
R101	1-247-111-00	CARBON 150 5% 1/4W
R102	1-247-111-00	CARBON 150 5% 1/4W
R103	1-247-111-00	CARBON 150 5% 1/4W
R104	1-247-111-00	CARBON 150 5% 1/4W
S101	1-516-379-00	SEESAW "POWER"
S102	1-570-173-11	VOLTAGE CHANGE "TRIAX/MULTI"
S103	1-570-296-11	TOGGLE "MIC"
S104	1-570-296-11	TOGGLE "MIC"
S105	1-570-296-11	TOGGLE "SCRIPT"
S106	1-570-171-12	PUSH "CALL"
S107	1-570-172-11	PUSH "CURSOR"
T1	1-448-209-11	POWER

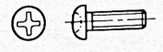
+B Bzn-N



7-621-□□□-□□

SIZE	Parts No.
2 x 3	772-00
x 4	772-10
x 5	772-20
x 6	772-30
x 8	772-40
x 10	772-50
x 12	772-60
x 14	772-70
x 16	772-80
x 20	—
2.6 x 3	775-00
x 4	775-10
x 5	775-20
x 6	773-95
x 8	775-40
x 10	775-50
x 12	775-60
x 14	775-70
x 16	775-80
x 20	775-90

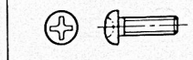
+B Bzn-N



7-682-□□□-□□

SIZE	Parts No.
3 x 3	544-09
x 4	545-09
x 5	546-09
x 6	547-09
x 8	548-09
x 10	549-09
x 12	550-09
x 14	551-09
x 16	552-09
x 20	553-09
4 x 4	558-09
x 5	559-09
x 6	560-09
x 8	561-09
x 10	562-09
x 12	563-09
x 14	564-09
x 16	565-09
x 20	566-09

+B Cr-N



7-682-□□□-□□

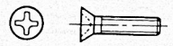
SIZE	Parts No.
3 x 3	544-04
x 4	545-04
x 5	546-04
x 6	547-04
x 8	548-04
x 10	549-04
x 12	550-04
x 14	551-04
x 16	552-04
x 20	553-04
4 x 4	558-04
x 5	559-04
x 6	560-04
x 8	561-04
x 10	562-04
x 12	563-04
x 14	564-04
x 16	565-04
x 20	566-04

+K Bzn-N

7-682-□□□-□□

SIZE	Parts No.
3 x 4	245-09
x 5	246-09
x 6	247-09
x 8	248-09
x 10	249-09
x 12	250-09
x 14	251-09
x 16	252-09
x 20	253-09
4 x 6	260-09
x 8	261-09
x 10	262-09
x 12	263-09
x 14	264-09
x 16	265-09
x 20	266-09

+K
Cr-N



7-682-□□□-□□

SIZE	Parts No.
3 x 4	245-04
x 5	246-04
x 6	247-04
x 8	248-04
x 10	249-04
x 12	250-04
x 14	251-04
x 16	252-04
x 20	253-04
4 x 6	260-04
x 8	261-04
x 10	262-04
x 12	263-04
x 14	264-04
x 16	265-04
x 20	266-04

+PS
Czn-N

7-682-□□□-□□

SIZE	Parts No.
2 x 4	253-05
x 5	253-15
x 6	253-25
x 8	253-35
x 10	253-45
x 12	253-55
2.6 x 4	253-95
x 5	254-05
x 6	254-15
x 8	254-25
x 10	254-35
x 12	254-45
x 14	254-95
x 16	254-55
x 20	254-65
3 x 5	646-01
x 6	647-01
x 8	648-01
x 10	649-01
x 12	650-01
x 14	651-01
x 16	652-01
x 20	653-01
4 x 6	660-01
x 8	661-01
x 10	662-01
x 12	663-01
x 14	664-01
x 16	665-01
x 20	666-01

+PS
Bzn-N

7-682-□□□-□□

SIZE	Parts No.
2 x 4	253-00
x 5	253-10
x 6	253-20
x 8	253-30
x 10	253-40
x 12	253-50
2.6 x 4	253-90
x 5	254-00
x 6	254-10
x 8	254-20
x 10	254-30
x 12	254-40
x 14	254-90
x 16	254-50
x 20	254-60
3 x 5	646-09
x 6	647-09
x 8	648-09
x 10	649-09
x 12	650-09
x 14	651-09
x 16	652-09
x 20	–
4 x 6	–
x 8	–
x 10	–
x 12	–
x 14	–
x 16	–
x 20	–

+PSW
Czn-N

7-682-□□□-□□

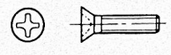
SIZE	Parts No.
3 x 6	947-01
x 8	948-01
x 10	949-01
x 12	950-01
x 14	951-01
x 16	952-01
x 20	953-01
x 25	954-01
x 30	955-01
x 35	956-01
x 40	957-01
4 x 8	961-01
x 10	962-01
x 12	963-01
x 14	964-01
x 16	965-01
x 20	966-01
x 25	967-01
x 30	968-01
x 35	969-01
x 40	970-01

+PSW
Bzn-N

7-682-□□□-□□

SIZE	Parts No.
3 x 6	947-09
x 8	948-09
x 10	949-09
x 12	950-09
x 14	–
x 16	–
x 20	–
x 25	–
x 30	–
x 35	–
x 40	–
4 x 8	–
x 10	–
x 12	–
x 14	–
x 16	–
x 20	–
x 25	–
x 30	–
x 35	–
x 40	–

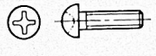
PRECISION +K
Bzn-N



7-627-□□□-□□

SIZE	Parts No.
1.7 x 1.8	–
x 2	450-28
x 2.2	–
x 2.5	450-48
x 2.8	–
x 3	450-58
x 3.5	–
x 4	450-78
x 4.5	–
x 5	450-98
x 5.5	–
x 6	–
2 x 2	452-08
x 2.2	452-88
x 2.5	452-48
x 2.8	–
x 3	452-18
x 3.5	452-98
x 4	452-28
x 4.5	–
x 5	452-38
x 5.5	–
x 6	452-58
x 7	452-68
x 8	452-78
2.6 x 3.5	–
x 4	–
x 4.5	454-28
x 5	454-38
x 5.5	–
x 6	–
x 7	–
x 8	–

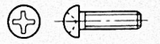
PRECISION +P
Bzn-N



7-627-□□□-□□

SIZE	Parts No.
1.7 x 1.6	552-18
x 1.8	–
x 2	552-28
x 2.2	–
x 2.5	552-08
x 2.8	–
x 3	552-38
x 3.5	552-78
x 4	552-48
x 4.5	–
x 5	552-58
x 5.5	–
x 6	–
2 x 1.8	554-38
x 2	553-18
x 2.2	–
x 2.5	553-28
x 2.8	554-58
x 3	553-38
x 3.5	554-18
x 4	553-48
x 4.5	553-58
x 5	–
x 5.5	–
x 6	553-68
x 7	553-88
x 8	553-98
x 10	553-78
2.6 x 2.8	556-08
x 3	–
x 3.5	556-28
x 4	556-38
x 4.5	556-48
x 5	556-58
x 5.5	–
x 6	556-78
x 7	–
x 8	–
x 9	–
x 10	–

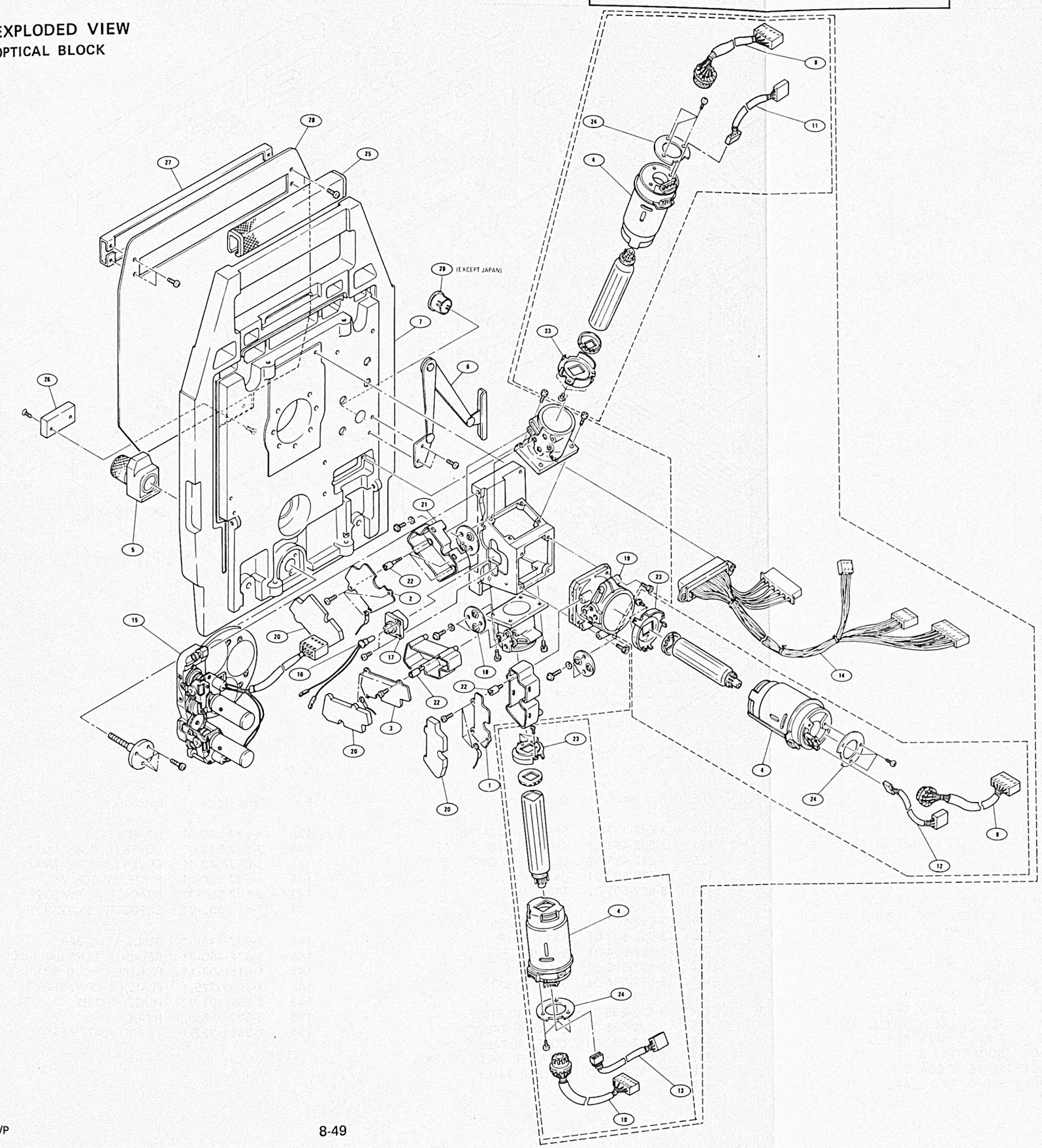
+P
Czn-N



7-682-□□□-□□

SIZE	Parts No.
3 x 3	144-01
x 4	145-01
x 5	146-01
x 6	147-01
x 8	148-01
x 10	149-01
x 12	150-01
x 14	151-01
4 x 4	158-01
x 5	159-01
x 6	160-01
x 8	161-01
x 10	162-01
x 12	163-01
x 14	164-01
x 16	165-01
x 20	166-01

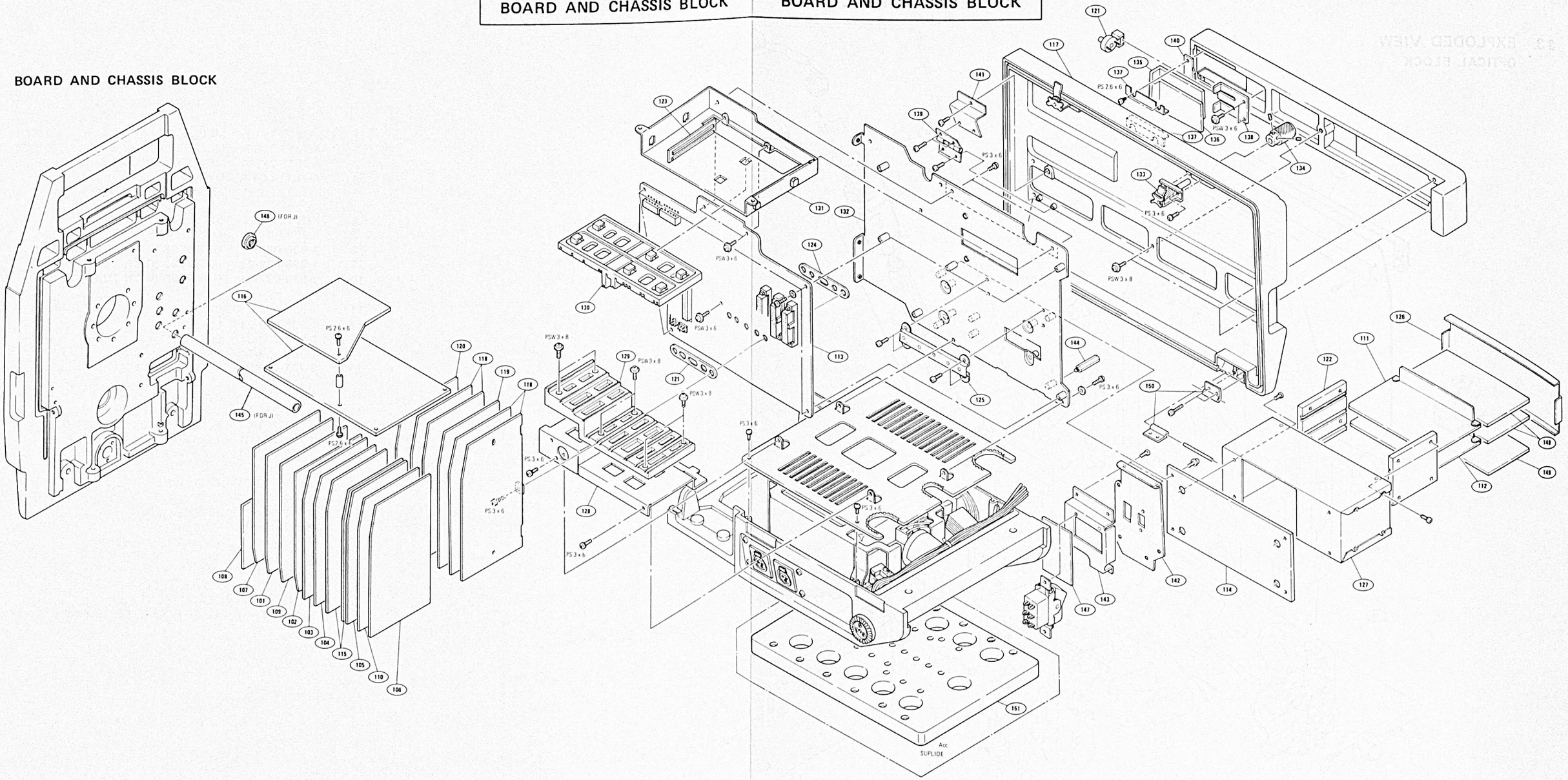
8-3. EXPLODED VIEW
OPTICAL BLOCK



No.	Parts No.	Description
1	A-7513-151-A	MOUNTED CIRCUIT BOARD "PA-28"(G)
2	A-7513-278-A	MOUNTED CIRCUIT BOARD "PA-28"(B)
3	A-7513-279-A	MOUNTED CIRCUIT BOARD "PA-28"(R)
4	**A-7611-004-A**	**DY ASSY**
5	X-3692-305-1	RETAINER ASSY, LENS
6	X-3692-312-1	STAY (LEFT), ASSY
7	X-3692-318-2	MOUNT ASSY, LENS
8	**1-936-082-11**	**HARNESS (R-CH TUBE SOCKET)**
9	**1-936-082-21**	**HARNESS (G-CH TUBE SOCKET)**
10	**1-936-082-31**	**HARNESS (B-CH TUBE SOCKET)**
11	1-936-083-11	COIL R
12	1-936-083-21	COIL G
13	1-936-083-31	COIL B
14	1-935-953-11	HARNESS (LENS-A)
15	3-707-208-01	FILTER BLOCK ASSY
16	1-519-376-11	BIAS LIGHT
17	3-707-212-01	HOLDER, BIAS LIGHT
18	3-707-211-01	PLATE, TRACKING ADJUSTMENT
19	3-707-210-01	HOLDER, DY
20	3-692-451-01	LID, PA CASE
21	3-692-452-01	CASE, PA
22	3-692-453-01	SCREW, PA
23	3-692-454-01	SHIELD, FRONT
24	3-692-455-01	RING, HOLD
25	3-692-464-01	CUSHION, HANDLE
26	3-692-571-01	PAD
27	3-692-573-01	COVER, EDGE
28	3-692-574-01	PLATE, FRONT
29	3-692-594-01	PLUG, HOLE (EXCEPT JAPAN)

BOARD AND CHASSIS BLOCK

BOARD AND CHASSIS BLOCK

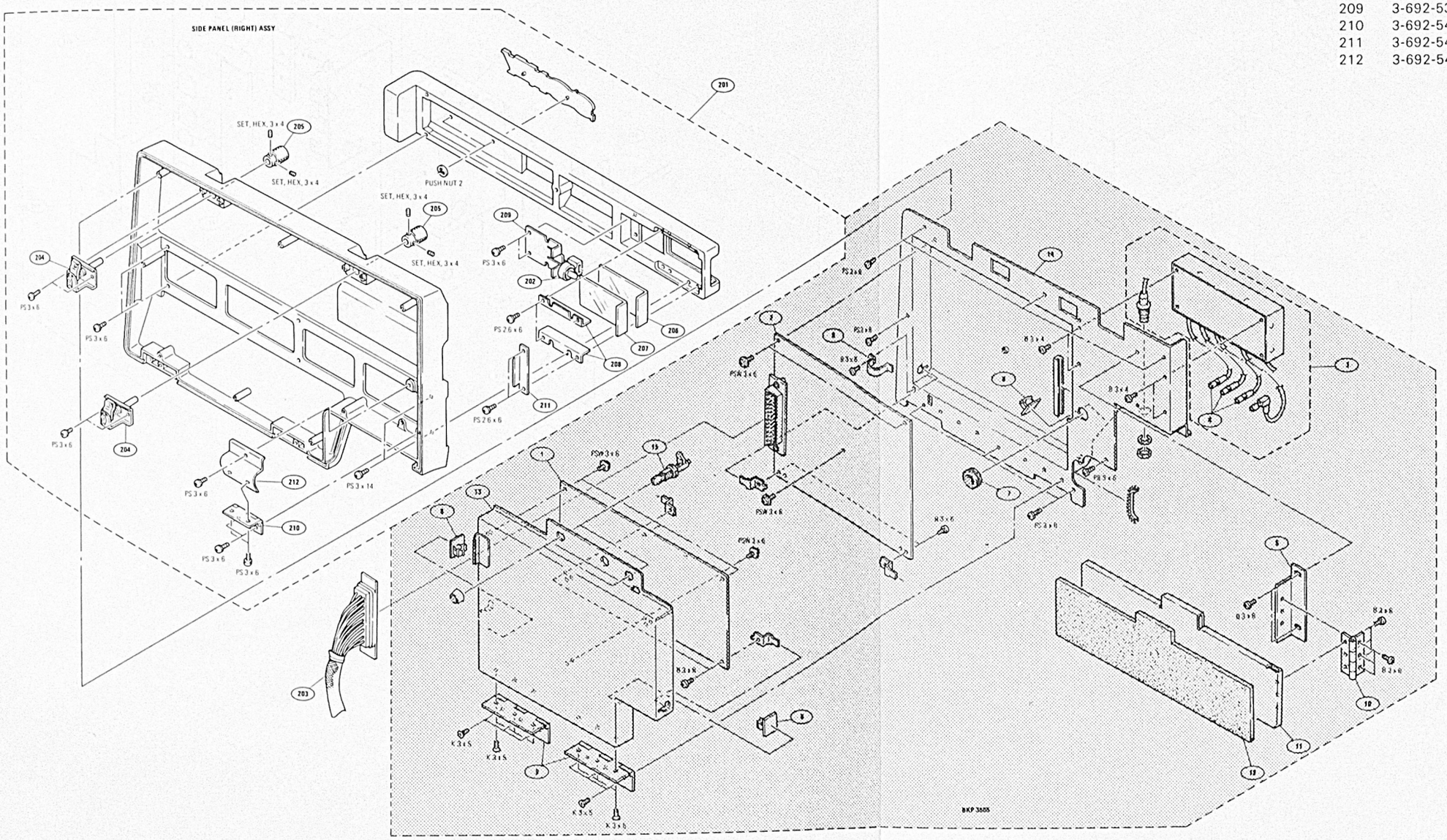


No.	Parts No.	Description
101	A-7513-119-A	MOUNTED CIRCUIT BOARD "VA-18"
102	A-7513-120-A	MOUNTED CIRCUIT BOARD "DF-26"
103	A-7513-121-A	MOUNTED CIRCUIT BOARD "IE-8" (FOR NTSC)
	A-7513-122-A	MOUNTED CIRCUIT BOARD "IE-8P" (FOR PAL)
104	A-7513-123-A	MOUNTED CIRCUIT BOARD "PR-49"
105	A-7513-124-A	MOUNTED CIRCUIT BOARD "EN-24" (FOR NTSC)
	A-7513-125-A	MOUNTED CIRCUIT BOARD "EN-24A" (FOR PAL)
106	A-7513-126-A	MOUNTED CIRCUIT BOARD "PS-53"
107	A-7513-127-A	MOUNTED CIRCUIT BOARD "AB-4" (FOR NTSC)
	A-7513-277-A	MOUNTED CIRCUIT BOARD "AB-4P" (FOR PAL)
108	A-7513-128-A	MOUNTED CIRCUIT BOARD "HN-32"
109	A-7513-129-A	MOUNTED CIRCUIT BOARD "SH-14"
110	A-7513-134-A	MOUNTED CIRCUIT BOARD "SG-85"
	A-7513-152-A	MOUNTED CIRCUIT BOARD "SG-85A" (FOR PAL)
111	A-7513-137-A	MOUNTED CIRCUIT BOARD "IF-71"
112	A-7513-138-A	MOUNTED CIRCUIT BOARD "AU-56"
113	A-7513-148-A	MOUNTED CIRCUIT BOARD "MB-53"
114	A-7513-149-A	MOUNTED CIRCUIT BOARD "MB-4"
115	A-7615-164-A	AUTO ASSY
116	A-7615-165-A	IF ASSY
117	A-7420-099-A	PANEL (LEFT) ASSY, SIDE
118	X-3692-320-1	PLATE (1) ASSY, SHIELD
119	X-3692-321-1	PLATE (2) ASSY, SHIELD
120	X-3692-328-1	PLATE (3) ASSY, SHIELD
121	**1-517-075-00**	**SOCKET, LAMP**
122	3-692-491-01	GUIDE, PC BOARD
123	3-692-492-01	SUPPORT, PC BOARD

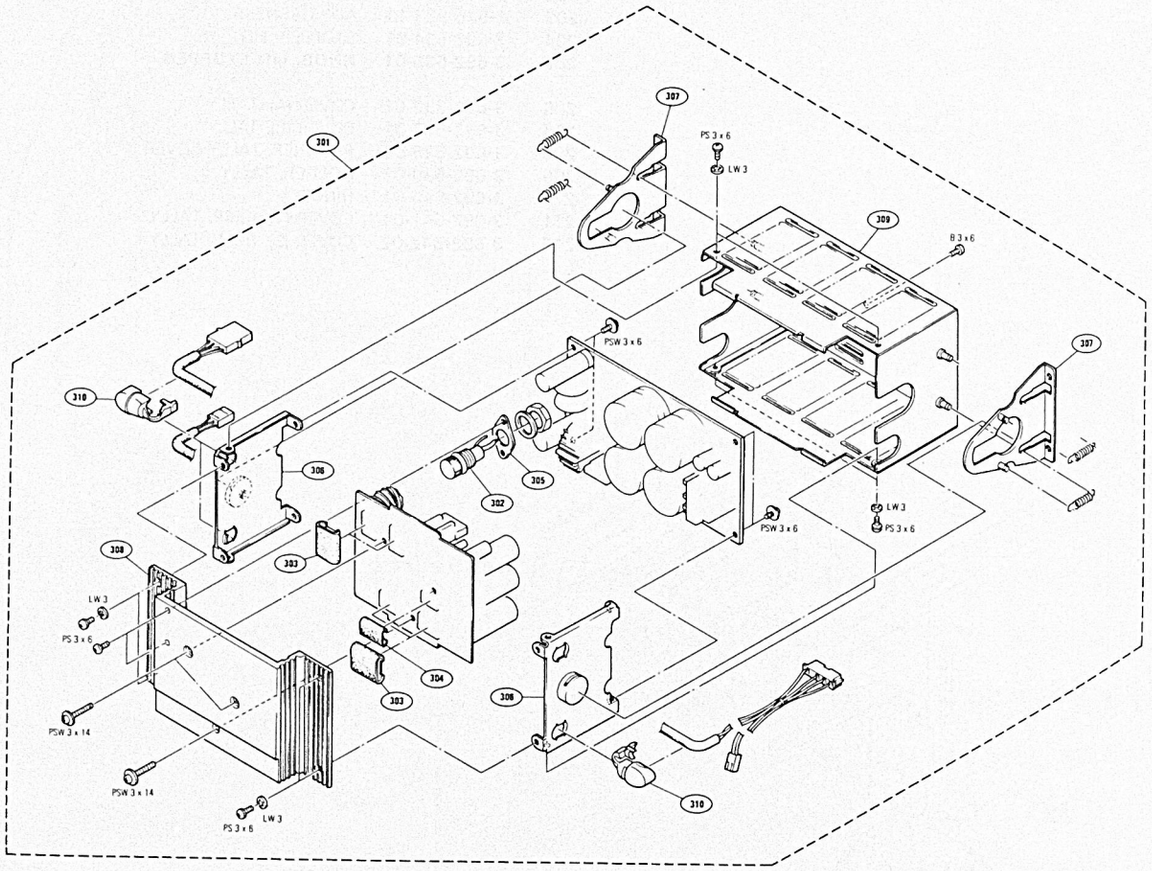
No.	Parts No.	Description
124	3-692-493-01	SHEET, INSULATING
125	3-692-494-01	STOPPER, SHIELD PLATE
126	3-692-499-02	LID, SHIELD CASE
127	3-692-500-01	CASE, SHIELD
128	3-692-501-02	TABLE, RAIL
129	3-692-502-01	RAIL (LOWER)
130	3-692-503-01	RAIL (UPPER)
131	3-692-504-01	BOX, IF
132	3-692-505-01	PLATE, MI
133	3-692-534-01	STOPPER, LID
134	3-692-535-01	KNOB, LID STOPPER
135	3-692-536-01	COVER(A), TALLY
136	3-692-537-01	COVER(B), TALLY
137	3-692-538-01	RETAINER, TALLY COVER
138	3-692-539-01	HOLDER, TALLY
139	3-692-540-01	HINGE
140	3-692-541-01	COVER (1), REAR, TALLY
141	3-692-542-02	COVER (2), REAR, TALLY
142	3-692-550-01	PLATE, SWITCH, AC
143	3-692-551-01	BRACKET, AC SWITCH
144	3-692-552-01	SUPPORT, HEXAGON
145	3-692-449-01	GUIDE, LENS BAR
146	3-692-450-01	RETAINER, LENS BAR GUIDE
147	1-615-804-11	PRINTED CIRCUIT BOARD "CN-11"
148	X-3692-329-1	PLATE (4) ASSY, SHIELD
149	3-692-101-01	PLATE, SHIELD
150	3-692-358-02	HINGE
151	X-3692-322-1	TRIPOD PLATE ASSY

SIDE PANEL BLOCK

No.	Parts No.	Description
201	A-7420-100-A	PANEL (RIGHT) ASSY, SIDE
202	**1-517-075-22**	**SOCKET, LAMP**
203	1-935-933-11	ADP HARNESS
204	3-692-534-01	STOPPER, LID
205	**3-692-535-01**	**KNOB, LID STOPPER**
206	3-692-536-01	COVER (A), TALLY
207	3-692-537-01	COVER (B), TALLY
208	3-692-538-01	RETAINER, TALLY COVER
209	3-692-539-01	HOLDER, TALLY
210	3-692-540-01	HINGE
211	3-692-541-01	COVER (1), REAR, TALLY
212	3-692-542-02	COVER (2), REAR, TALLY

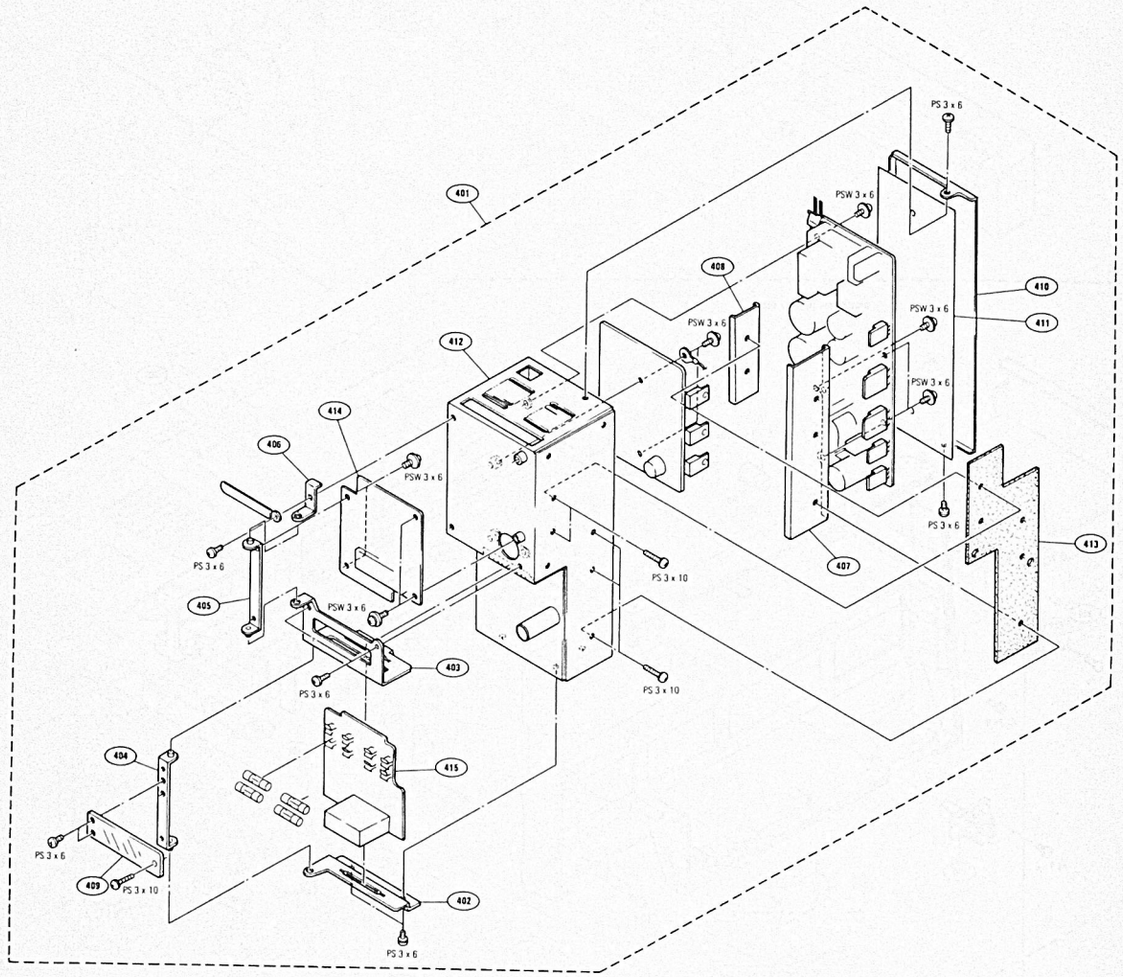


REGULATOR A BLOCK



No.	Parts No.	Description
301	**A-7580-015-A**	**REG (A) ASSY**
302	1-533-188-11	HOLDER, FUSE
303	3-692-447-01	TUBE (A), HEAT SINK RUBBER
304	3-692-448-01	TUBE (B), HEAT SINK RUBBER
305	3-692-475-01	NUT, PLATE
306	3-692-476-01	PLATE, GUIDE, POWER (A)
307	3-692-477-01	SUPPORT, POWER
308	3-692-486-01	HEAT SINK
309	3-692-487-01	COVER, POWER
310	**3-703-001-01**	**BUSHING, CORD**

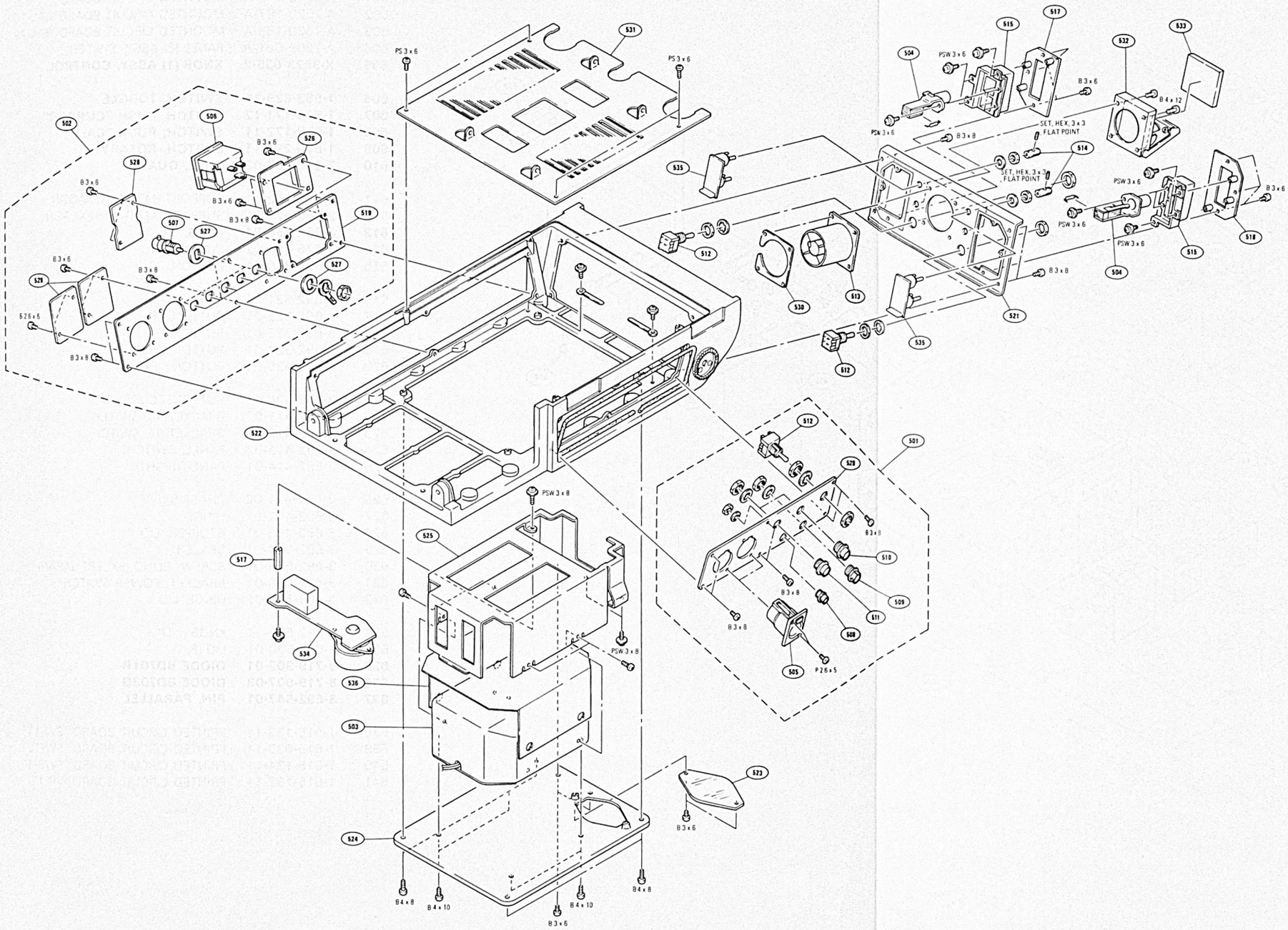
REGULATOR B BLOCK



No.	Parts No.	Description
401	**A-7580-016-A**	**REG (B) ASSY**
402	3-692-478-01	BRACKET (1), PCB
403	3-692-479-01	BRACKET (2), PCB
404	3-692-480-01	TABLE (1), ROTARY
405	3-692-481-01	TABLE (2), ROTARY
406	3-692-482-01	TABLE (3), ROTARY
407	3-692-483-01	RETAINER (1), TRANSISTOR
408	3-692-484-01	RETAINER (2), TRANSISTOR
409	3-692-485-01	COVER, FUSE
410	3-692-488-01	LID, REGI (B)
411	3-692-489-01	SHEET, INSULATING, REGI (B)
412	3-692-490-01	CASE, POWER (B)
413	3-692-526-01	SHEET, RADIATION RUBBER, (REG-B)
414	A-7513-147-A	MOUNTED CIRCUIT BOARD "SV-56"
415	1-615-028-11	PRINTED CIRCUIT BOARD "FU-24"
	1-615-028-21	PRINTED CIRCUIT BOARD "FU-24A" (FOR PAL)

BOTTOM CHASSIS BLOCK

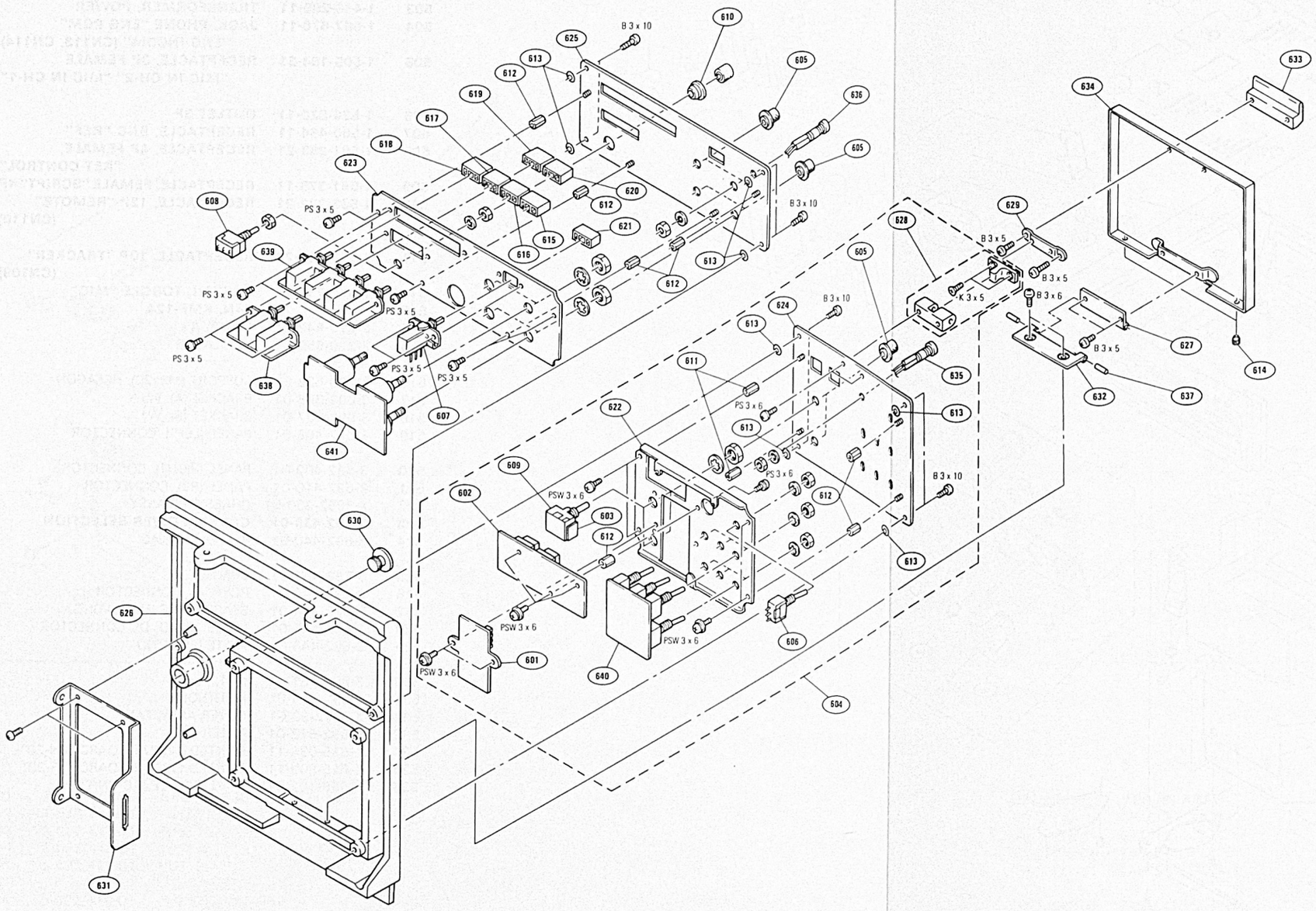
BOTTOM CHASSIS BLOCK



No.	Parts No.	Description
501	A-7603-055-A	PANEL (A) ASSY, CONNECTOR
502	A-7603-057-A	PANEL (B) ASSY, CONNECTOR
503	**1-448-209-11**	**TRANSFORMER, POWER**
504	**1-507-676-11**	**JACK, PHONE "ENG PGM" "ENG INCOM" (CN113, CN114)**
505	**1-509-184-31**	**RECEPTACLE, 3P FEMALE "MIC IN CH-2" "MIC IN CH-1"**
506	**1-526-820-11**	**OUTLET 3P**
507	**1-560-494-11**	**RECEPTACLE, BNC "REF"**
508	**1-561-233-21**	**RECEPTACLE, 6P FEMALE, "RET CONTROL"**
509	**1-561-376-11**	**RECEPTACLE, FEMALE "SCRIPT" 4P**
510	**1-562-221-21**	**RECEPTACLE, 12P "REMOTE" (CN110)**
511	**1-562-782-21**	**RECEPTACLE, 10P "TRACKER" (CN109)**
512	**1-570-296-11**	**SWITCH, TOGGLE "MIC"**
513		**FAN, KMF-12A**
514	**2-270-649-01**	**KNOB, A**
515	2-270-650-01	INSULATOR
516	2-280-622-61	SUPPORT (M3x20), HEXAGON
517	3-692-356-01	BRACKET (A), WJ
518	3-692-357-01	BRACKET (B), WJ
519	3-692-408-01	PANEL (LEFT), CONNECTOR
520	3-692-409-01	PANEL (RIGHT), CONNECTOR
521	3-692-410-01	PANEL (RB), CONNECTOR
522	X-3692-330-01	CHASSIS (B) ASSY
523	**3-692-439-01**	**COVER, POWER SELECTION**
524	3-692-440-01	PLATE, UNIT, AC
525	3-692-441-01	BRACKET, AC
526	3-692-443-01	PLATE (J), CONNECTOR
527	3-692-444-01	SPACER, BNC INSULATING
528	3-692-445-01	PLATE, BLIND, DC CONNECTOR
529	3-692-446-01	PLATE (B), BLIND
530	3-692-461-01	NUT, PLATE
531	3-692-474-01	PARTITION
532	X-3692-323-1	COVER ASSY, FAN
533	3-692-572-01	FILTER
534	1-615-038-11	PRINTED CIRCUIT BOARD "CN-28"
535	1-615-803-11	PRINTED CIRCUIT BOARD "VR-30"
536	3-698-102-01	SHIELD PLATE, AC UNIT

REAR CHASSIS BLOCK

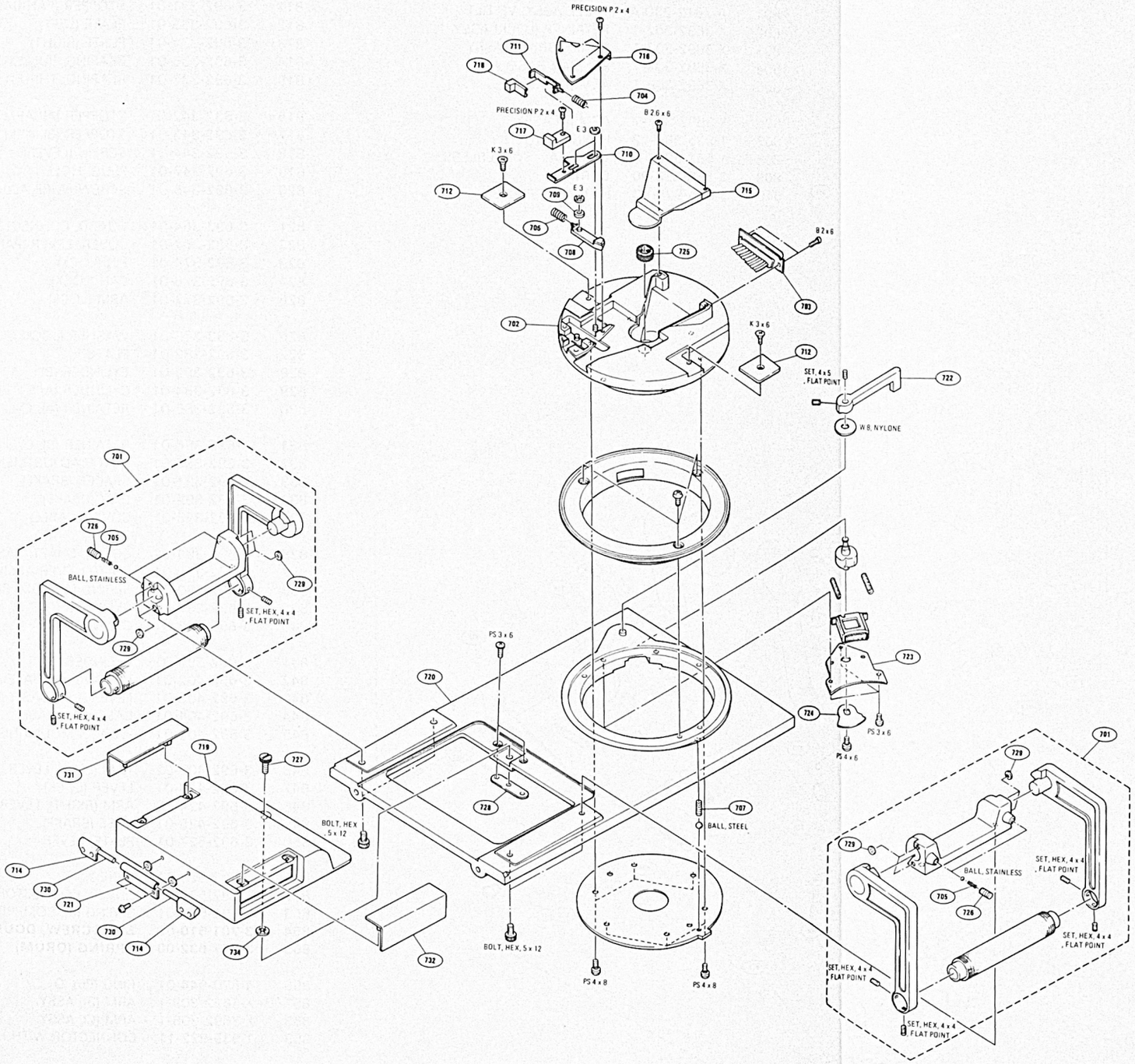
REAR CHASSIS BLOCK



No.	Parts No.	Description
601	A-7513-142-A	MOUNTED CIRCUIT BOARD "CP-82"
602	A-7520-187-A	MOUNTED CIRCUIT BOARD "SW-10"
603	A-7520-188-A	MOUNTED CIRCUIT BOARD "SW-79"
604	A-7605-061-A	PANEL (B) ASSY, SWITCH
605	**X-3673-635-2**	**KNOB (1) ASSY, CONTROL**
606	**1-553-629-11**	**SWITCH, TOGGLE**
607	**1-570-171-12**	**SWITCH, PUSH "CURSOR"**
608	**1-570-172-11**	**SWITCH, PUSH "CALL"**
609	**1-570-295-11**	**SWITCH, ROTARY**
610	**2-270-607-03**	**RING, GUARD**
611	2-280-622-11	SUPPORT (M3x8), HEXAGON
612	2-280-622-21	SUPPORT (M3x10), HEXAGON
613	**3-654-756-01**	**RING, O**
614	3-676-081-02	CUSHION, TC
615	3-692-320-01	BUTTON, "R,,
616	3-692-321-01	BUTTON, "G,,
617	3-692-322-01	BUTTON, "B,,
618	3-692-323-01	BUTTON, "-G,,
619	3-692-324-01	BUTTON, "RET1,,
620	3-692-325-01	BUTTON, "RET2,,
621	3-692-326-01	BUTTON, "CURSOR,,
622	3-692-411-02	BRACKET (A), SWITCH
623	3-692-412-01	BRACKET (B), SWITCH
624	3-692-413-02	PANEL, SWITCH
625	3-692-414-01	PANEL (RIGHT)
626	3-692-431-02	CHASSIS (R)
627	3-692-462-01	HINGE
628	3-692-463-01	STOPPER, LID
629	3-692-557-01	SPACER
630	3-692-555-01	SCREW, BLIND (EXCEPT JAPAN)
631	3-692-556-01	BRACKET, POWER SWITCH
632	3-692-558-02	HINGE, LID
633	3-692-559-01	KNOB, LID
634	3-692-560-01	LID (R)
635	**8-719-907-01**	**DIODE BD701R**
636	**8-719-907-03**	**DIODE BD703G**
637	**3-692-547-01**	**PIN, PARALLEL**
638	1-615-133-11	PRINTED CIRCUIT BOARD "SW-11"
639	1-615-039-11	PRINTED CIRCUIT BOARD "SW-12"
640	1-615-134-11	PRINTED CIRCUIT BOARD "SWB-1"
641	1-615-132-11	PRINTED CIRCUIT BOARD "VR-11"

TOP PANEL BLOCK

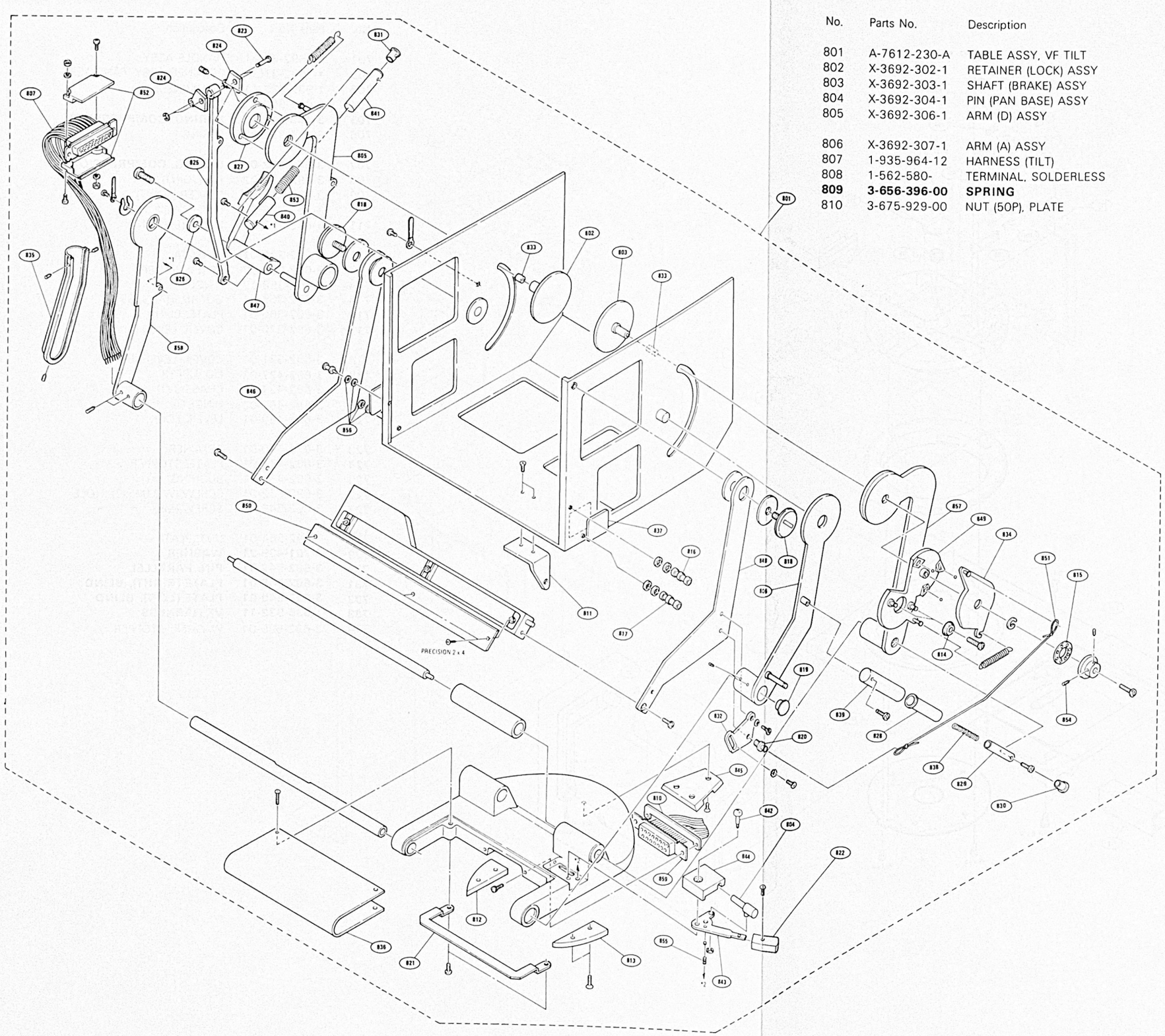
TOP PANEL BLOCK



No.	Parts No.	Description
701	X-3692-311-1	HANDLE ASSY
702	X-3692-315-1	RETAINER ASSY, PAN BASE
703	1-935-932-11	VF HARNESS
704	2-083-308-01	SPRING
705	**3-485-419-01**	**SPRING, COMPRESSION**
706	3-634-355-02	SPRING
707	**3-641-622-01**	**SPRING, COMPRESSION**
708	3-692-327-02	PIN (JOINT)
709	3-692-328-01	SPACER (JOINT)
710	3-692-329-01	LEVER (A) (JOINT)
711	3-692-330-01	LEVER (B) (JOINT)
712	3-692-332-01	PLATE (A)
713	3-692-344-02	SCREW (LEVER)
714	3-692-358-12	HINGE
715	3-692-363-01	GUARD, HARNESS
716	3-692-365-01	PLATE, BLIND
717	3-692-370-01	COVER, LEVER (A)
718	3-692-371-01	COVER, LEVER (B)
719	3-692-427-03	LID, UPPER
720	3-692-434-01	CHASSIS (T)
721	3-692-462-02	HINGE
722	3-692-469-01	LEVER, LOCK
723	3-692-470-01	RETAINER
724	3-692-471-01	PLATE, STOPPER
725	3-692-472-01	BUSHING, NG
726	3-692-532-01	SCREW (WP) (M5x5), HOLE
727	3-692-546-01	SCREW (M5)
728	3-692-554-01	NUT, PLATE
729	**3-701-439-21**	**WASHER**
730	**3-692-547-01**	**PIN, PARALLEL**
731	**3-692-548-01**	**PLATE (RIGHT), BLIND**
732	**3-692-549-01**	**PLATE (LEFT), BLIND**
733	**1-935-932-11**	**VF HARNESS**
734	3-692-595-01	WASHER, STOPPER

VF TILT TABLE ASSY

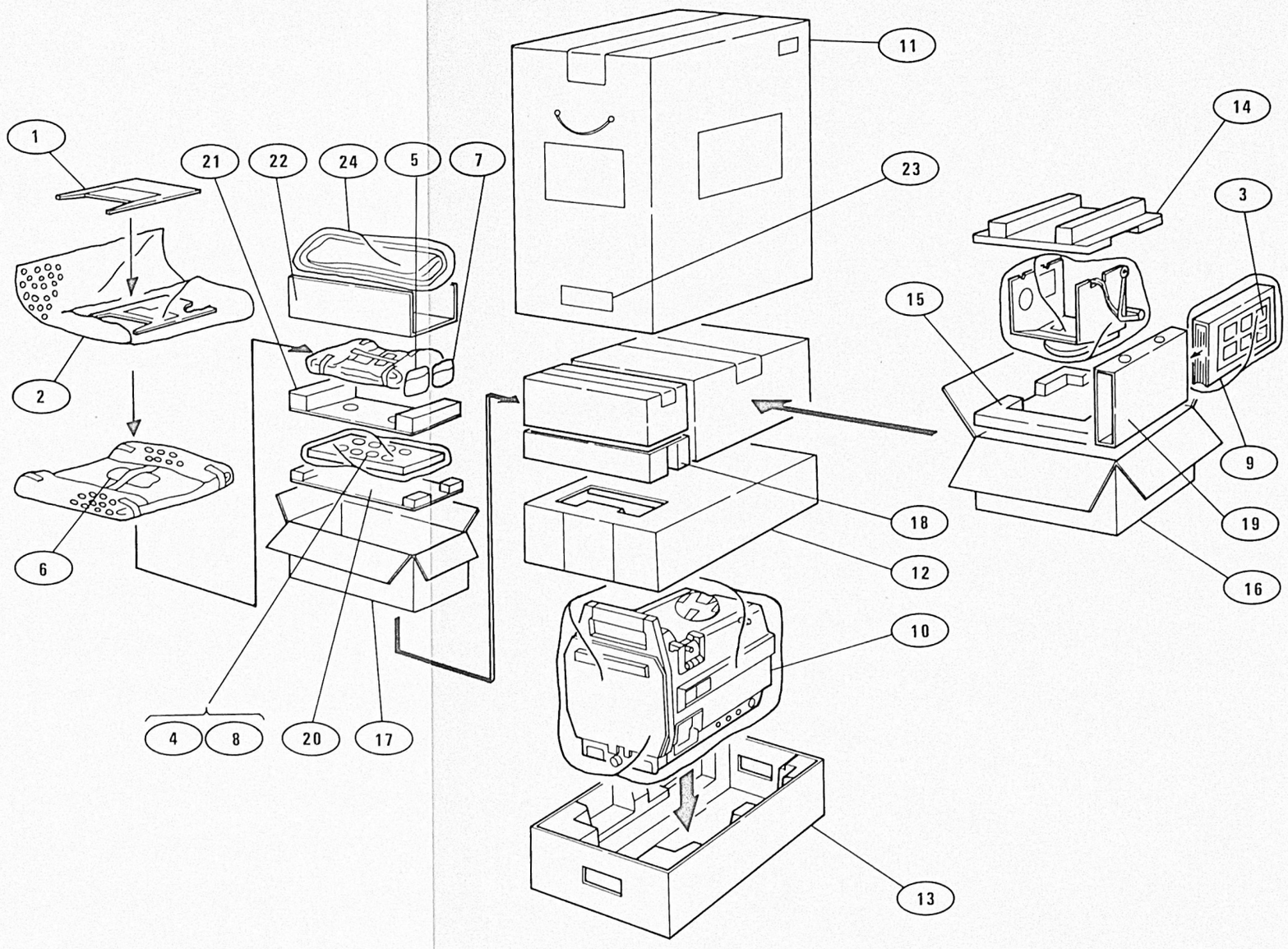
VF TILT TABLE ASSY



No.	Parts No.	Description
801	A-7612-230-A	TABLE ASSY, VF TILT
802	X-3692-302-1	RETAINER (LOCK) ASSY
803	X-3692-303-1	SHAFT (BRAKE) ASSY
804	X-3692-304-1	PIN (PAN BASE) ASSY
805	X-3692-306-1	ARM (D) ASSY
806	X-3692-307-1	ARM (A) ASSY
807	1-935-964-12	HARNESS (TILT)
808	1-562-580-	TERMINAL, SOLDERLESS
809	**3-656-396-00**	**SPRING**
810	3-675-929-00	NUT (50P), PLATE

No.	Parts No.	Description
811	3-692-331-01	STOPPER (PAN BASE)
812	3-692-333-01	PLATE (LEFT)
813	3-692-334-01	PLATE (RIGHT)
814	3-692-336-01	BEARING, PULLEY
815	3-692-337-01	BEARING, THRUST
816	3-692-342-01	STOPPER (A), ARM
817	3-692-343-01	STOPPER (B), ARM
818	3-692-344-01	SCREW (LEVER)
819	3-692-347-01	PLUG, HOLE
820	3-692-349-01	SCREW (WIRE ADJUSTMENT PLATE)
821	3-692-364-01	GUARD, CONNECTOR
822	3-692-367-01	COVER, LEVER (PAN BASE)
823	3-692-374-01	PIN (LOCK)
824	3-692-376-01	CAN (LOCK)
825	3-692-377-01	ARM (LOCK)
826	3-692-378-01	WASHER (LOCK)
827	3-692-382-01	PLATE
828	3-692-383-01	CYLINDER (B)
829	3-692-384-01	CYLINDER (A)
830	3-692-385-01	RETAINER (A), CYLINDER
831	3-692-386-01	RETAINER (B), CYLINDER
832	3-692-389-01	PLATE, ADJUSTMENT, WIRE
833	3-692-391-01	SPACER (BRAKE)
834	3-692-392-01	DISK (BRAKE)
835	3-692-393-01	COVER (CABLE)
836	3-692-394-01	COVER, SHAFT, BASE
837	3-692-395-01	PLATE (LEVER ARM), SLIDE
838	3-692-530-01	SPRING (A), COMPRESSION
839	3-692-397-01	CYLINDER (C)
840	3-692-398-01	CYLINDER (D)
841	3-692-399-01	CYLINDER (E)
842	3-692-402-01	SCREW (PAN BASE)
843	3-692-403-01	LEVER (PAN BASE)
844	3-692-404-01	BASE (PAN BASE)
845	3-692-406-01	WEDGE, MOUNTING
846	3-692-407-02	ARM (LEFT), LEVER
847	3-692-418-01	LEVER (LOCK)
848	3-692-424-02	ARM (RIGHT), LEVER
849	3-692-425-01	BASE (BRAKE)
850	3-692-527-01	PLATE, LEVER
851	3-692-528-01	WIRE
852	3-692-529-01	COVER, CONNECTOR
853	3-692-531-01	SPRING (B), COMPRESSION
854	**3-701-510-00**	**SET SCREW, DOUBLE POINT 4x4**
855	**3-887-632-00**	**SPRING (DRUM)**
856	4-870-944-01	RING (P5), O
857	X-3692-309-1	ARM (B), ASSY
858	X-3692-308-1	ARM (C), ASSY
859	1-935-932-11	CONNECTOR WITH HARNESS "VF"

PACKING

8-4. PACKING MATERIAL AND ACCESSORY

No.	Parts No.	Description
1	A-7513-139-A	BOARD EXTENDER "EX-90"
2	A-7513-140-A	BOARD EXTENDER "EX-38"
3	A-7612-265-A	NUMBER PLATE ASSY
4	X-3692-322-1	TRIPOD PLATE ASSY
	4-603-287-00	RUBBER, SHOCK ABSORBING (12PCS)
5	1-506-522-11	10P PLUG
	1-560-078-00	RECEPTACLE, 6P MALE
	1-560-343-00	4P PLUG
6	1-518-411-00	LAMP (2PCS)
	1-532-325-00	FUSE, TIME-LAG (2PCS) (PAL)
	1-532-350-00	FUSE, TIME-LAG
	1-532-748-11	FUSE, GLASS TUBE (2PCS) (NTSC)
7	3-692-589-01	BOARD EXTRACTOR
8	3-701-630-00	BAG, POLY (FOR TRIPOD PLATE)
9	3-701-632-00	BAG, POLY (FOR O/M MANUAL)
10	3-701-646-00	BAG, POLY (FOR BVP-360)
11	3-692-575-01	CARTON, INDIVIDUAL, OUTER
12	3-692-586-01	CUSHION, UPPER
13	3-692-587-01	CUSHION, LOWER
14	3-692-576-01	CUSHION, UPPER, TILT TABLE
15	3-692-577-01	CUSHION, LOWER, TILT TABLE
16	3-692-578-01	CARTON, INDIVIDUAL, TILT TABLE
17	3-692-579-01	CARTON, ACCESSORY
18	3-692-580-01	SPACER (A)
19	3-692-581-01	SPACER (B)
20	3-692-582-01	SPACER (C)
21	3-692-583-01	SPACER (D)
22	3-692-584-01	SPACER (E)
23	3-692-585-01	JOINT, PACKING (2PCS)
24	3-698-103-01	COVER, DROP PROTECTION